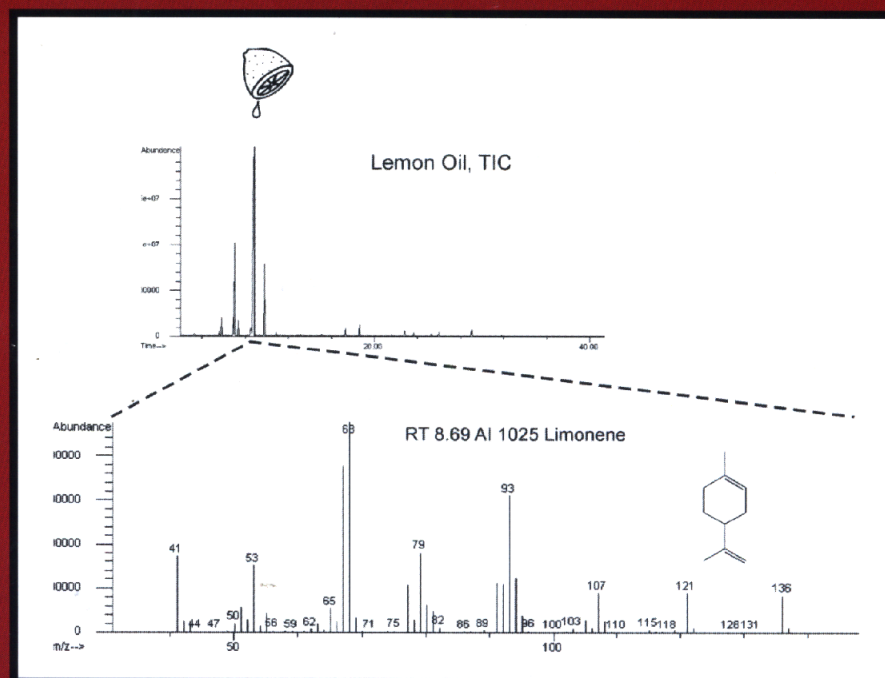


Identification of Essential Oil Components by Gas Chromatography/ Mass Spectrometry, 4th Edition



Robert P. Adams

**IDENTIFICATION OF
ESSENTIAL OIL COMPONENTS BY
GAS CHROMATOGRAPHY/
MASS SPECTROMETRY, 4th Ed.**

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CONTENTS

Preface

vii

PART A GAS CHROMATOGRAPH/MASS SPECTROSCOPY

I. Introduction	1
II. Nomenclature	1
III. Mass Spectrometry Considerations	2
A. Obtaining Quality Spectra for Identification	2
B. The Role of Retention Times in Library Searches	3
IV. Operating Conditions Used for Spectra Acquisition	4
V. Compatibility with Mass Spectrometer Data Systems	5
VI. Explanations of Formats Used in Appendices	6
VII. References	7

PART B APPENDICES

I. Alphabetical Listing of Compounds with Their Retention Time and Arithmetic Retention Index on DB-5	9
II. Compounds Listed in Order of Their Retention Time and Arithmetic Index on DB-5	31
III. Mass Spectra and Structures of Compounds Listed in Order of Their Retention Time/Arithmetic Index on DB-5	53
IV. Cross Index of Common Names	698

Preface

This is the fourth edition on mass spectra and retention times of common components in plant essential oils. It differs from the previous edition in that an additional 600 compounds have been added and the source of the sample has been added, along with a few sources in nature for most of the compounds. All of the compounds have been analyzed on an HP5970 MSD mass spectrometer using HP Chemstation software. I hope it will be useful as a tool for the identification of compounds in this format. In addition, the library (including retention times) is available for the most common mass spectrometer/ computer systems.

Changes in technology allow us to make this available now. For instance, when I began research on essential oils in 1966, a major portion of my thesis work involved the identification of components in *Juniperus* by IR spectra. Of course that involved cold trapping compounds as they eluted from the TC detector on GC. With current mass spectrometers, we can now accomplish in a couple of hours the analysis that took months or years.

This book is an outgrowth of the previous books (Identification of Essential Oils by Ion Trap Mass Spectroscopy, Academic Press, 1989; Identification of Essential Oil Components by Gas Chromatography/Mass Spectroscopy, Allured Publishing, 1995), but its roots reach back to 1976 when I took a sabbatical study with Ernst von Rudloff and Lawrence Hogge at the National Research Council of Canada. Our collaborative efforts yielded numerous mass spectra on their quadrupole mass spectrometer. Later, as I visited with colleagues in chemical ecology, I began to appreciate the library that I had assembled. So this book is an outgrowth of many collaborations, starting with Ernst von Rudloff and now reaching around the world.

I owe a special debt of thanks to colleagues who unselfishly sent samples of oils, mass spectra, marked chromatograms, and even purified compounds. These colleagues include: E. A. Aboutabl, Egypt; Aldrich Chemical Co., USA; J. Altarjos, Spain; Applied Science Co., USA; A. Badoc, France; A. J. Barroso, Portugal; K. H.C. Baser, Turkey; A. F. Barrero, Spain; J. Berlin, Germany; H. Bussenius, Haiti; J. J. Brophy, Australia; E.-J. Brunke, Symrise GmbH & Co. (formerly Dragoco), Germany; J. L. R. Canavate, Spain; R. M. Carman, Australia; J. Casanova, France; F. M. Chaudary, Pakistan; T. S. Chamblee, Coca Cola Co., USA; A. Chainteau, Nestec, Switzerland; J. C. Chalchat, France; M. Chien, Givaudan, USA; G. Collin, Canada; D. Clark, New Zealand; L. Cool, USA; A. Cornat, France; A. A. Craveiro, Brazil; W. Cretney, Canada; R. Croteau, USA; Jian-Qin Cu, China; C. Demetzos, Greece; H. De Pooter, Belgium; M. Deyrup, USA; V. Dev, USA; R. P. Doss, USA; V. Dragar, Australia; G. Dugo, Italy; L. Doimo, Australia; F. S. El-Peraly, Saudi Arabia; G. Elzen, USA; W. W. Epstein, USA; N. Fisher, Germany; R. Estell, USA; Z. Fleisher, Crompton & Knowles, USA; C. Franz, France; R. P. Garry, France; S. Geribaldi, France; K. Gollnick, Germany; J. Hafizoglu, Turkey; K. J. Harkiss, England; C. Harvala, Greece; S. Hasegawa, Japan; A. R. Hayman, New Zealand; E. Hethelyi, Hungary; H. G. Hills, USA; J. Hendrickson, USA; L. Hogge, Canada; G. Honda, Japan; M. Ito, Japan; P. Joseph-Nathan, Mexico; D. Joulain, France; A. J. Kahn, USA; W. A. Konig, Germany; S. Kral, IFF, USA; J. Langenheim, USA; D. Lamparsky, Givaudan, Switzerland; A. Lara, Spain; B. M. Lawrence, USA; N. G. Lewis, USA; M. Maffei, Italy; M. L. Maheshwari, India; C. S. Mathela, India; C. A. McDaniel, USA; B.Y. Meklati, Algeria; A. Michet, France; C. Menut, France; L. N. Mishra, India; D. McMahon, Union Carbide Corp., USA; K. Moriai, Japan; M. G. Moshonas, USA; R. D. H. Murray, Scotland; S. Nagahama, Japan; K. R. Neisess, USA; I. Nykanen, Finland; J. Oda, Japan; T. H. Ohaski, Japan; S. Park, USA; F. Perineau, France; W. Phillips, USA; G. Prestwich,

USA: R. A. Raguso, USA; P. Raharivelomanana, France; P. Richomme, France; B. Rodriguez, Spain; V. Roussis, Greece; A. San Feliciano, Spain; J. J. C. Scheffer, Netherlands; R. Scheffrahn, USA; G. Schmaus, Symrise GmbH & Co. (formerly Dragoco), Germany; N. Sellier, France; D. Senalik, USA; S. Shatar, Mongolia; H. Shiota, Japan; E. Silva, Mexico; I. Southwell, Australia; E. Stahl-Biskup, Germany; R. Stipanovic, USA; A. B. Svendsen, Netherlands; A. Tara, Italy; A. Tenaglia, France; R. S. Thakur, India; R. K. Thappa, India; A. F. Thomas, Firmenich, Switzerland; M. Toyot, Japan; R. R. Trenkle, IFF, USA; A. O. Tucker, USA; A. Ulubelen, Turkey; T. A. van Beek, Netherlands; A. Velasco-Negueruela, Spain; J. P. Vidal, France; O. Vostrowsky, Germany; G. J. Wagner, USA; P. Waterman, U.K.; R. Weavers, New Zealand; H. Weyerstahl, Germany; P. Weyerstahl, Germany; P. T. White, USA; M. Whitten, USA; H. J. Woerdenbag, Netherlands; K. C. Wong, Malaysia; Xu Ji-Qing, China; Xiaobing Yu, China; P. Yates, Canada; Y. Yuesa, Japan; T. A. Zannoni, USA; M. G. B. Zoghbi, Brazil; J. A. Zygodlo, Argentina; and J. H. Zwaving, Netherlands.

Special thanks to Tanya Yank, Lou Garrett, Madeline Reed and Ryan Perez for assistance with word processing and drawing structures. Also thanks to several young students who helped: Carlos Borunda, Blake Fitzgerald and Ryan Remick.

Finally, I would like to thank my wife, Janice, for her patience and encouragement.

PART A COMBINED GAS CHROMATOGRAPHY/ MASS SPECTROMETRY

I. INTRODUCTION

The utilization of the essential oils of plants is widespread, ranging from perfumes and fragrances to spices and medicinals. Research has varied from very applied, as in the case of quality control of fruit juices, to academic studies involving insect-plant coevolution. In most cases, the investigator or user is faced with the problem of identification of numerous components in very complex mixtures. The volatile (usually taken to mean steam-distillable) plant oils are composed chiefly of terpenoids—mono-, sesqui- and di-terpenes—plus various alcohols, ketones and aldehydes of terpenoids, with frequently occurring aromatic compounds arising from the phenyl-propanoid pathway (i.e., eugenol, safrole, clemicin, etc.). In some species, one may obtain alkanes and aliphatic alcohols, ketones and aldehydes.

Many of the components of plant essential oils are common to many species (i.e., α -pinene, limonene, myrcene, camphor, etc.). In fact, it appears that the ability to identify perhaps as few as five hundred compounds would enable one to identify more than 90% of the constituents of the essential oil of most species. Of course, there are exceptions, such as *Artemisia* (Epstein et al., 1976) with its non-head-to-tail monoterpenes. One only has to examine the works of Craveiro, et al. (1981), Formacek and Kubeczka (1982), Lawrence (1978, 1979), and Masada (1976), however, to see the reports of a few hundred compounds from hundreds of species. Even though most of the identifications encountered in essential oils (and particularly physiological analyses of seasonal and edaphic factors in commercial spice and essential crops) may involve common terpenoids, unequivocal identification can be difficult (Adams, et al., 1979).

Historically, essential oil components have been identified by infrared spectroscopy (IR), with stereochemistry assigned by nuclear magnetic resonance (NMR). Only rarely has ultraviolet spectroscopy (UV) been useful for identification. Although liquid phase IR is very explicit (essentially fingerprints) for most components, the difficulty in isolation of pure fractions containing only a single minor component has largely negated the present use of liquid phase IR. The development of vapor phase IR and the concurrent construction of reference libraries might expand the use of vapor phase IR for the identification of essential oils.

The advent of fused quartz, bonded-phase capillary columns has led to very reproducible retention times and columns from batch to batch (Jennings, 1987). Given reproducible retention times, the unequivocal identification of essential oil components is possible by retention time/mass spectrometry/computer searching algorithms (Adams, et al., 1979; Adams, 1989; 1995; 2001).

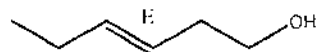
The introductions of the ion trap detector (ITD), or ion trap mass spectrometry, by Finnigan Corp. and the desktop quadrupole by Hewlett-Packard, to name but two key technologies, have made available relatively inexpensive mass spectrometers that have full computer searching capabilities. In addition, users can build their own library and search them.

The purposes of this book are to present quadrupole mass spectra, retention times, structures, and synonymy for the most commonly occurring plant essential oil components.

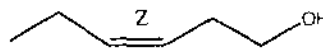
II. NOMENCLATURE

There is no general agreement on the nomenclature of common names utilized for essential oil components. Because of the long historical usage of common names, the more precise chemical names provided by the Chemical Abstract Service (CAS) are seldom used.

There are some conventions, however, that need to be adopted for the common names to lead to more uniformity. It has been common to call isomers about a double bond as *cis* and *trans* rather than E and Z (below):



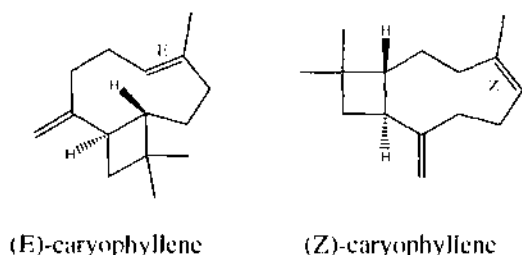
trans-hex-3-enol



cis-hex-3-enol

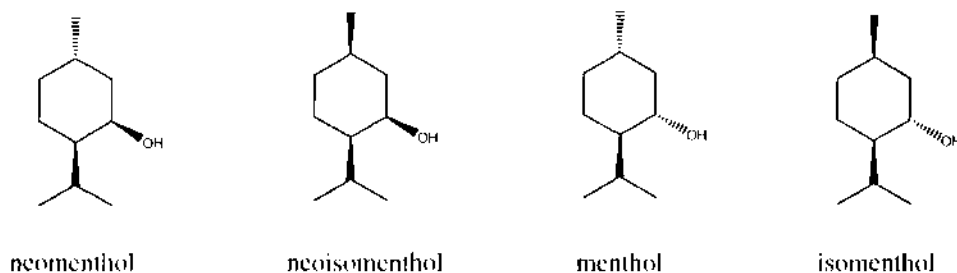
In this book, I shall try to be consistent in naming all double bond isomers as E or Z, not *trans* or *cis*. So, according to my conventions, the hexenol above will be called (3E)-hexenol and (3Z)-hexenol, not *trans*-hexenol or *cis*-hexenol.

The nomenclatural situation gets more complicated with ringed compounds such as “ β -caryophyllene” i.e., (E)-caryophyllene and (Z)-caryophyllene:



Even more confusing for (E)-caryophyllene (“ β -caryophyllene”): The double bond in the α position results in the name of α -caryophyllene, yet this compound is universally called α -humulene!

True *cis*- and *trans*- isomers have also resulted in problems. Decouzon et al. (1990) have proposed a system of naming that is often followed (and will be followed in this book). They present the following isomers of menthol:



The naming convention of Decouzon et al. (1990) is used in this book for these kinds of neo-, iso- and neoiso- isomers.

III. MASS SPECTROMETRY CONSIDERATIONS

A. Obtaining Quality Spectra for Identification

Although operation of the HP mass selective detector (MSD) and other desktop mass spectrometers is automatic in most aspects, there are a number of areas in which the user needs to be careful in choosing a spectrum for identification. Obviously the choice of a column, its installation and use are very important in obtaining separation, eliminating bleed, etc. Because Jennings (1987) has published an excellent treatise on capillary column gas chromatography, the reader is referred to that book for detailed discussion of capillary gas chromatography.

The HP MSD can be tuned using either an “automatic tune,” (or “autotune”) or a “target tune.” The use of autotune should be avoided, as the target tune gives more consistent mass spectra over a time period. Our HP MSD was tuned using target tune, with target tune values of M69 - 100%; 1313 - 40%, 219 - 64%, 502 - 3%.

In Figure 1, one can see the autotune

(upper) and target tune (lower). Notice the much

larger amount of M219, in addition to some increase in M131. Because the essential oil components are often of mass 136-222, increasing the ion intensities in this range is very useful. It is important to do a target tune any time one cleans the MSD or changes gas cylinders.

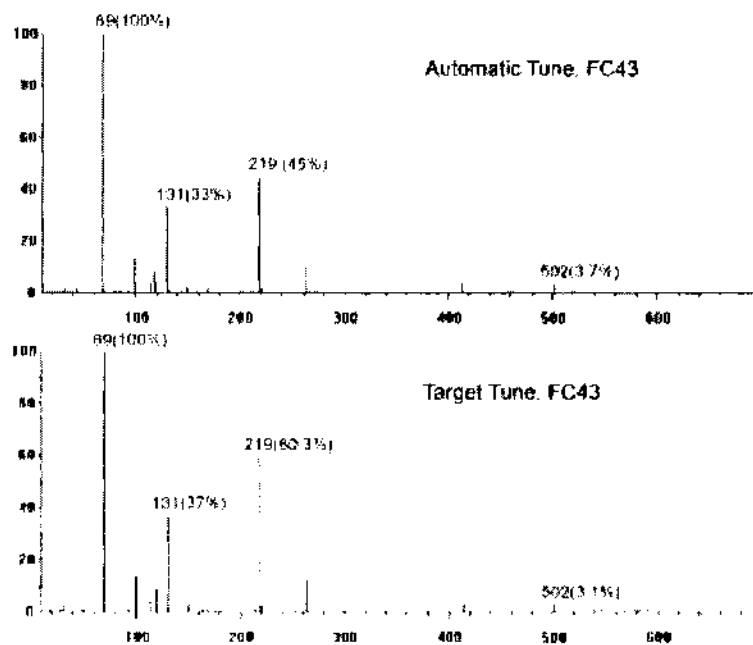


Figure 1. Comparison of autotune vs. target tune spectra

Oxygen and water can severely affect the mass spectrometer, both in the quality of spectra obtained and in permanent damage to components such as the filament. Leak checking should be a daily operation! Never turn on the filaments before doing a leak check. Run a standard (ex. cedrol) each week to determine if any changes in tuning have occurred. When the mass spectrometer is turned off for cleaning or repair, a complete recalibration should be done, starting *first* with a leak check for air and water. Because even the bonded phase polar columns are degraded by oxygen and water, high quality helium (or hydrogen) should be used, and both oxygen and water traps should be inserted between the supply cylinders and gas chromatograph.

No other aspect is as consistently troublesome as overloaded spectra. Be very careful with large peaks to avoid overloaded spectra. As a general rule, the spectra in this book were chosen either at the mid-point for small peaks or at about 0.05 min from the start of the peak for large peaks.

Please note: The retention times are *not* at the center for large peaks! On the system used for this book, small peaks averaged about 0.1 min in width or about 0.05 min to the top of the peak. To be consistent, the retention times for peaks that were larger than 0.1 min wide were set to 0.05 min past the start of the peak.

B. The Role of Retention Times in Library Searches

Because unequivocal identification of some terpenoids cannot be made on the basis of their mass spectra (with current technology), the use of retention times is critical. As of this date, most data systems do not incorporate retention times in their library searches. For this reason, I have included the retention time just before the name for each compound in the library (ie, 5.62 thujene < α ->). Thus, 5.62 is the retention time in min on DB-5, 30 m, temperature programmed from 60 °C to 246 °C at 3 °C/min, ramp.

Figure 2 shows the result of a library search for the compound at 5.589 to 5.647 in lemon oil. For this small peak, I would use a retention time (RT) of 5.589 min + 0.05 min = 5.639 min. This closely matches the RT for the first match (5.62) thujene < α ->

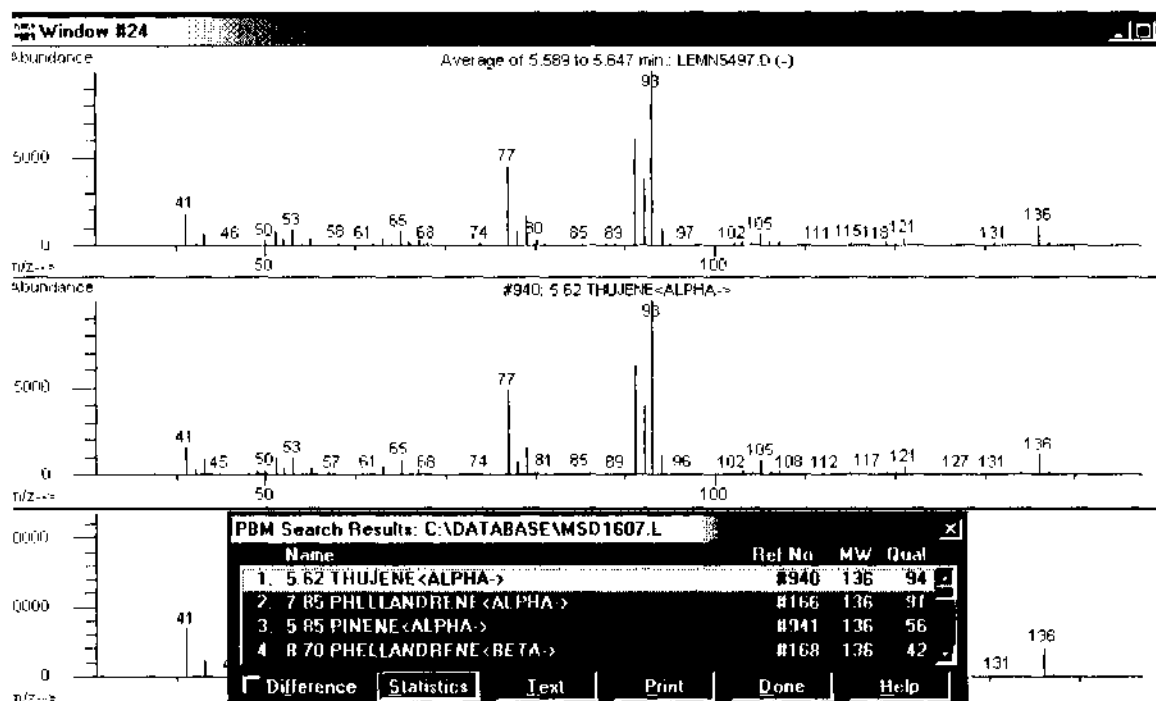


Figure 2. Library search for α -thujene from lemon oil (top) vs. α -thujene from the library; notice that the second match was to α -phellandrene at nearly the same quality level (94 vs. 91)

from the HP Chemstation (Hewlett-Packard, Palo Alto, CA, United States) search. Although the second match (7.85) phellandrene (< α ->) is nearly as similar, note that the retention time (7.85 min) is far too late to be the unknown peak.

A second example (Figure 3) shows the search for a large compound in lemon oil. In this case, the scan through the peak is from 8.657 to 8.865. I would round up the last digit (8.657 \rightarrow 8.66 and add 0.05 min = 8.71). The HP Chemstation search correctly identified the peak as limonene (Figure 3), with an RT in the library of 8.69 min. In general, expect to be within 0.1

min of the library time if you use the same DB-5, 30m column, same temperature ramp (60°C to 246°C at 3°C/min) and if you correct your peak's RT to library values when identifying new peaks.

We routinely add two internal standards to our samples: octane (C8) and eicosane (C20). If the starting time is incorrect, a correction can be added to the early peak's RT. If some problem has developed in the gas chromatograph's oven temperature controller and/or column characteristics, this changes the RT of eicosane.

In actual practice, you can easily adjust RT as you process the output by merely noting the RT of major peaks that are easily identified and then either adding or subtracting the difference in their RT and that in the library. For instance, if in the above example α -thujene in lemon oil had an RT of 5.50, versus 5.62 in the library, I would begin to add 0.12 min to the RT of the next peak(s). If further along in the chromatogram geraniol had an RT of 17.81 versus 17.95 in the library, I would begin adding 0.14 min to the RT of the next peak(s). By adjusting the RT as one "crawls" along the chromatogram, one can attain very good RT.

It should also be noted that, occasionally, the library search just does not seem to pick up some subtle differences. In these instances it is useful to have the book opened to roughly around the unknown's RT and just look on the pages! The researcher's eyes are still pretty good at seeing patterns that computer searches miss.

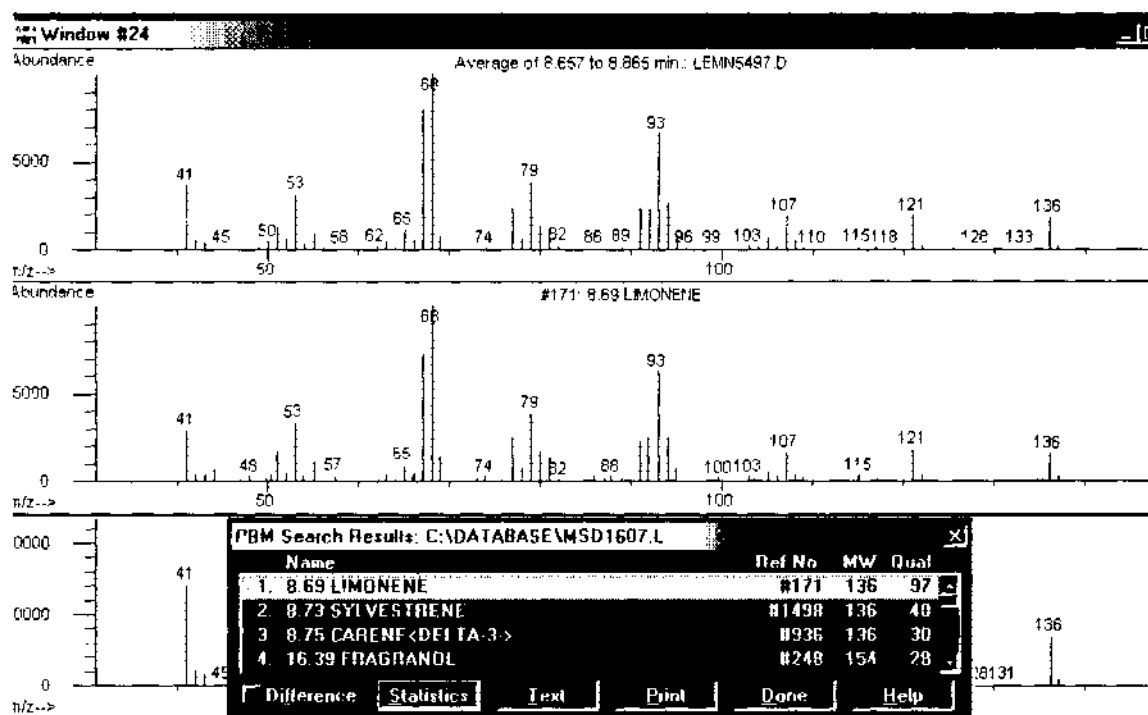


Figure 3. Library search for unknown and match to library limonene

IV. OPERATING CONDITIONS USED FOR SPECTRA ACQUISITION

Mass spectra were obtained on a Hewlett Packard (HP) model 5970b MSD mass spectrometer (Hewlett-Packard, Palo Alto, CA, United States), coupled directly to an HP 5890 gas chromatograph (Hewlett-Packard, Palo Alto, CA, United States) fitted with a J&W DB-5 (J&W Scientific, Folsom, CA, United States), 0.25 mm i.d. x 30 m, 0.25 μ m coating thickness, fused silica capillary column. The GC/MSD was operated under the following conditions: injector temperature, 220°C; transfer line, 240°C; oven temperature programmed 60°C-246°C at 3°C/min; carrier gas, He at 34.96 cm/sec or 1.02 mL/min (at 210°C); injection (for most whole essential oils), 0.1 μ L (10% solution), split 1:20, 500 ng/on column; injection (for individual or simple mixtures of reference compounds), 0.1 μ L (1% solution), split 1:20, 50 ng/on column. Internal standards (n-octane and n-eicosane) were added to each sample to aid in the standardization of RT.

The following is a typical set of values for our instrument: EM Volts 1800v., X ray 44.0, emission on, AMU gain 88, AMU offs 60, mass gain 52, mass offs 14, repeller 10.20, ion focus 0.0, ent lens 54, Acq. mode scan, scan range 41-415, 1 scan/sec, solvent delay 2.00 min.

V. COMPATIBILITY WITH MASS SPECTROMETER DATA SYSTEMS

In addition to this printed book, a computer searchable library is available for use on the following systems:

1. Palisade Bench Top/PBM, (PBM2205.SPC)
2. Finnegan GCQ/ (GCQM2205.LBR)
3. Varian Saturn (VAR52205.LBR)
4. Finnegan Ion Trap (ITD2205.LIB & ITD2205.INX)
5. Finnegan INCOS (FINC2205.LS & FINC2205.LX)
6. Fisons/VG JCAMP (FISV2205.JDX)
7. Fisons/VG Mass Lab (FIML2205.IDB,.IDL,.PDB,&.PDI)
8. HP JCAMP, Unix (HPJC2205.HPJ)
9. HP Chemstation [Dir:HPCH2205.L, plus 7 files: ROOT; HEADER; HEADER.IND; CAS.IND; CONDENSE; CONDENSE.IND; FULL.D]
10. net CDF (NETC2205.CDF)
11. PE Turbomass (PETU2205.IDB,.IDL,.PDB,&.PDI)
12. Shimadzu QP5000 (6 files: SHIM2205.NAM, .FOM, .LIB, .SPC, .COM, .FLG)
13. MassFinder (MF32205.mf)
- [14.] Finnegan Triple Quad can automatically convert the .LS, .LX (#5. above) formatted library
- [15.] Finnegan ICIS can read Finnegan Ion Trap (.LIB, .INX, #4. above) formatted library
- [16.] Teknivent Vector 2 can read PBM (#1. above) formatted library

Many of the data systems can input an HP Jcamp (8) formatted library and convert it to their internal format. It should be noted that the Mass Finder (point 13 above) is stand-alone software that can input mass spectral data from most systems. MassFinder can be used to process and identify compounds using a combination spectral data and RT.

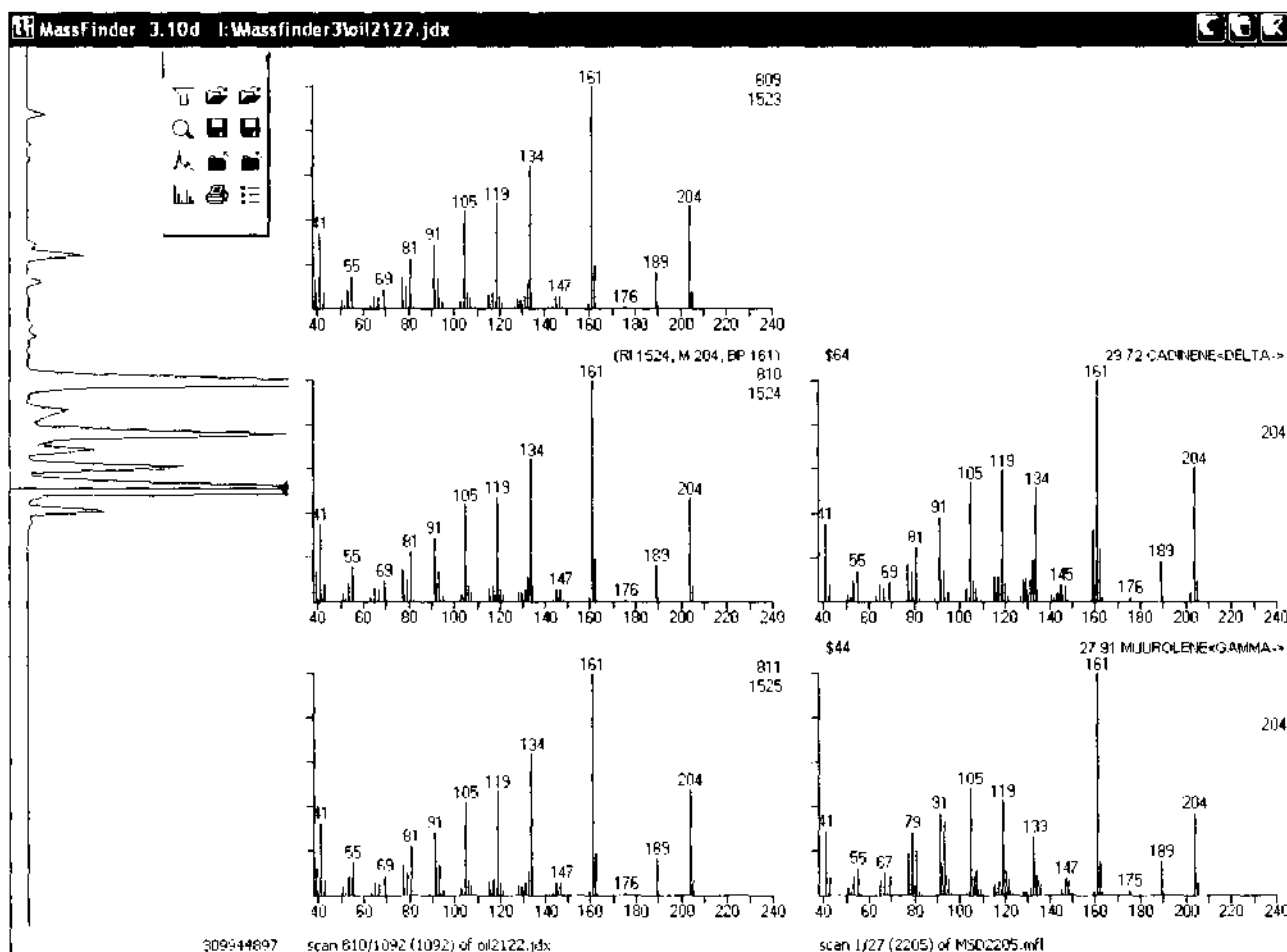


Figure 4. MassFinder search page showing the identification of δ -cadinene; the middle section displays the previous, current, and next scan from the RIC (left); library matches are on the right side, ranked by similarity (1 and 2 of 27 shown)

Figure 4 shows a search from MassFinder. One of the benefits of MassFinder is that it displays the previous and next mass spectral scan, as well as the current scan. So it is easy to detect mixed peaks. Another very useful feature of MassFinder is the capability of outputting customized RIC and mass spectra from publication. Information on MassFinder is available from Detlev Hochmuth at www.massfinder.com.

VI. EXPLANATIONS OF FORMATS USED IN APPENDICES

Because RT may vary as columns age and if different carrier gases are used, it is useful to have an index based on a series of standards, such as straight chain hydrocarbons. The most common index is the Kovats Index (Kovats, 1965).

Kovats indices are computed using formula (2) [p. 230 from Kovats (1965)] as follows:

$$KI(x) = 100 P_z + 100 \{ (\log RT(x) - \log RT(P_z)) / (\log RT(P_{z+1}) - \log RT(P_z)) \}$$

Where: $RT(P_z) \leq RT(x) \leq RT(P_{z+1})$, and $P_4 \dots P_{34}$ are n-paraffins, (up to N=34 in this book).

However, Van den Dool and Kratz (1963) noted earlier that when temperature programming is done, an arithmetic index (AI) would be more appropriate than a logarithm-based index. The arithmetic index used in this edition was computed as:

$$AI(x) = 100 P_z + 100 \{ (RT(x) - RT(P_z)) / (RT(P_{z+1}) - RT(P_z)) \}$$

Both AI and KI indices are presented for each compound in Appendix III.

The first appendix presents an alphabetical list of the compounds for which mass spectra were obtained and includes their RT and arithmetic index on a J&W DB-5, 30 m, 0.26 mm i.d., 0.25 μ m coating thickness, with He as carrier gas at 31.9 cm/sec (1.017 mL/min), with a programmed temperature of 60°-246°C at 3°C/min. The problem of presenting different retention indices has been discussed by Jennings (1978) and Jennings and Shibamoto (1980). I have chosen to follow Jennings and Shibamoto (1980) in publishing RT, but have also included both arithmetic and Kovats indices.

A small DOS program (ARITHIND.EXE), included on the CD-ROM, may be used to print out a complete table of RTs, AIs and KIs from RT = 1.43-82.80 min (C_4 - C_{34} alkanes).

It should be noted that retention on a Carbowax-type column may seem essential, but we have found even bonded Carbowax to change polarity characteristics rather quickly (and therefore change the RT). The non-polar phases lack some of the resolving power for alcohols and ketones, but the longer term stability and lower batch-to-batch variability offset that liability. The polarity of a DB-5 column is equivalent to: BP-5, CP-SIL-8CB, DC-200, DC-560, Dexsil 300, GB-5, OV-3, OV-73, SE-52, SE-54, SPB-5, Ultra 2 and 007-2.

Appendix II lists the compounds by RT on a DB-5. This list is useful when you are identifying compounds, as it is a quick guide to see if a library match runs close to the peak you are analyzing.

Appendix III presents the quadrupole spectra of compounds that are most commonly encountered in the identification of essential oils. Unfortunately, several very common compounds do not appear in Appendix III because we could not obtain authentic reference compounds. Each of the compounds was searched in Chemical Abstracts Service to obtain the current chemical or systematic name (CN), supplement registry numbers and supplement synonyms. Structural information came from original literature sources (see preface), Aldrich Chemical Co. catalog, Alfa Chemical Co. catalog, Chemical Abstracts Service, Devon and Scott (1972), Dictionary of Organic Compounds (1982), Food Chemical CODEX (Dodgen, 1981), EPA/NIH mass spectral data base (Heller and Milne, 1980), Formacek and Kubezka (1982), Jennings and Shibamoto (1980), Pfaltz and Bauer Chemical Co. catalog, Swigar and Silverstein (1981), von Sydow, Anjou and Karlsson (1970), Masada (1976), Merck Index (Windholz, 1983), and Yukawa (1973). As far as practical, the structural patterns used by Devon and Scott (1972) were followed. Each of the compounds follows the same format:

RT..... AI..... KI..... Common name.....
 CAS#: MF:..... FW:..... MSD Lib#:.....
 CN:.....
 SYNONYMS:.....
 SOURCE:.....

Where:

RT = Retention time on DB-5 column, in min.

AI = Arithmetic index on DB-5 in reference to n-alkanes.

KI = Kovats index on DB-5 in reference to n-alkanes..

Common name = Common name generally used (of course, some compounds have two or three names that are very widely used, so it is somewhat arbitrary, no matter which name is used herein). As far as possible, the root of the common name is typed first, with modifiers placed afterwards (ex. terpinene <a>, not a-terpinene). This enables one to sort the names and hopefully will aid the user in finding names..

CAS# = Chemical Abstracts Service reference number. Many of the essential oil components have been assigned several CAS#s over the years because of their independent discoveries around the world. Of course, CAS tries to keep the registry up to date. Another problem with the CAS registry numbers is that the optical rotation of essential oil components is difficult to obtain from trace components in complex mixtures. Therefore, most of the reports of species composition do not include information on optical rotation. For example, the sample of calamenene came from a complex oil mixture and a search of CAS revealed both R (+) and S (-) forms have been reported. Therefore, the choosing of a CAS# becomes arbitrary. This also presents a problem for the staff at CAS when they assign registry numbers to compounds in the literature.

MF = Molecular formula.

FW = Formula weight (or molecular weight) in AMU.

MSD Libr# = HP MSD library entry number (the library is available on CD-ROM from Allured Publishing).

CN = Chemical or systematic name used by Chemical Abstracts Service. Almost all the names are from the ninth chemical index.

SYNONYMS = Synonyms for the common name. Some of these are various permutations of an older systematic name (ex. 3-methyl -4-heptanone and 4-heptanone, 3-methyl-). Almost all of the synonyms are cross indexed in Appendix IV.

To the right of each compound name and paragraph is the structure, and below is the mass spectrum on the HP mass selective detector (MSD). Although most *cis*- and *trans*- isomers follow the CAS rules, using the groups with the largest molecular weights to assign *cis*- and *trans*-, these rules sometimes differ from traditional usage (e.g., *cis*- and *trans*- β -terpineol, *cis*/*trans*-sabinene hydrates, etc.). As far as possible, the CAS system is followed and noted on the compound entry.

SOURCE = Source of the compound used for the analysis, plus other natural sources where known.

Appendix IV lists all the synonyms and cross-references the synonyms to the common name as an aid for the reader. The accepted common names (used for the spectra in Appendix III) are in bold face capitals (ex. **ABIETAL**).

VI. REFERENCES

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PART B APPENDICES

Appendix I

**ALPHABETICAL LISTING OF COMPOUNDS WITH
THEIR RETENTION TIME AND ARITHMETIC RETENTION INDEX ON DB-5**

Common Name	RT	AI	Common Name	RT	AI
Abienol	51.98	2149	Allyl anthranilate	28.89	1501
Abieta-8(14),13(15)-diene	52.12	2153	Allyl butanoate	04.60	0881
Abieta-7,13-diene-3-one	56.85	2312	Allyl cinnamate <(E)->	30.78	1548
Abieta-8,12-diene	48.03	2022	Allyl cyclohexyl propanoate	25.61	1423
Abietadien-18-ol <8,13->	57.17	2324	Allyl decanoate	27.84	1476
Abietadiene	50.08	2087	Allyl heptanoate	14.86	1178
Abietal	56.87	2313	Allyl hexanoate	10.72	1079
Abietal <4-epi->	56.44	2298	Allyl isovalerate	05.82	0931
Abietal<dehydro->	55.74	2274	Allyl nonanoate	23.65	1378
Abietatriene	49.08	2055	Allyl octanoate	19.22	1278
Abietol	59.37	2401	Allyl tiglate	08.57	1021
Abietol <4-epi->	57.72	2343	Ambersage	18.58	1263
Abietol <neo->	61.15	2468	Ambrinol <cis- α ->	26.26	1439
Abietol<dehydro->	58.42	2368	Ambrinol <trans- α ->	25.27	1415
Acetanisole < α ->	19.76	1290	Ambroxide	38.81	1756
Acetonyl acetone	05.48	0919	Amorph-4 ene <1 α ,10 α -epoxy->	31.70	1570
Acetophenone	09.99	1059	Amorpha-4,11-diene	26.71	1449
Acetophenone <2,4,6-trimethoxy-3-methyl->	36.80	1701	Amorpha-4,7(11)-dien-8-one <2 α acetoxy->	46.84	1985
Acetophenone <3'-methoxy->	20.11	1298	Amorpha-4,7(11)-diene	27.97	1479
Acetophenone <4'-methoxy->	22.30	1347	Amorpha-4,7(11)-diene <2 α -acetoxy->	40.59	1805
Acetophenone <p-methyl->	14.91	1179	Amorpha-4,7(11)-diene <2 α -hydroxy->	39.49	1775
Acetoxycelamol <8 α ->	40.14	1792	Amorpha-4,7-diene <2 α -acetoxy-11-methoxy->	42.55	1861
Acetoxycudesman-4 α -ol <11->	45.24	1938	Amorpha-4,9-dien-14-al	36.91	1704
Acetoxylhexane <2->	06.10	0941	Amorpha-4,9 dien-2-ol	36.77	1700
Acetyl pyridine <2->	08.83	1028	Amorpha-4,9-diene <7,14-anhydro->	38.78	1755
Acetyl thiophene <2->	10.97	1086	Amorphane <cis-4,10-epoxy->	28.05	1481
Acetyl-2,5-dimethyl furan <3->	10.78	1081	Amorphane <trans-4,10-epoxy->	27.91	1478
Acetylacetophenone <p->	26.47	1444	Amorphene < α ->	28.13	1483
Acetylfuran <2->	05.19	0909	Amorphene < δ ->	29.29	1511
Acetylpyrrole <2->	09.79	1054	Amorphene < γ ->	28.63	1495
Aciphyllene	28.89	1501	Amyl acetate	05.25	0911
Acora-2,4(15)-diene	26.50	1444	Amyl cinnamaldehyde <(E)->	35.48	1667
Acora-3,7(14)-diene	24.93	1407	Amyl cinnamaldehyde <(Z)->	34.73	1647
Acoradiene <10-epi β ->	27.73	1474	Amyl cinnamyl alcohol < α ->	36.06	1682
Acoradiene < α ->	27.32	1464	Andro eneccalinol	35.80	1675
Acoradiene < β ->	27.52	1469	Anethole <(E)->	19.43	1282
Acoradienol < β ->	39.03	1762	Anethole <(Z)->	17.96	1249
Acorenol < α ->	34.13	1632	Angustifolenone	14.36	1167
Acorenol < β ->	34.30	1636	Angustione	23.38	1372
Acorenone	36.45	1692	Angustione <dehydro->	23.80	1381
Acorenone B	36.64	1697	Anisaldehyde <p->	17.85	1247
Acorone	41.09	1819	Anisaldehyde <o->	17.50	1239
Acorone <iso ->	40.83	1812	Anisaldehyde <p->, dimethylacetal	22.93	1361
Acrolein <(3E)-(2-furyl)->	11.80	1107	Anisaldehyde,<meta->	15.57	1195
Adamantanone <2->	20.64	1310	Anisole	05.32	0913
Agarofuran < α ->	30.79	1548	Anisole <p-but-(1E)-enyl->	23.74	1380
Agarospinol	34.69	1646	Anisole <p-methyl->	08.34	1015
Ageratochromene	35.16	1658	Anisyl acetate <p->	25.13	1412
Ageratochromene <6-demethoxy->	27.18	1461	Anisyl alcohol <meta->	19.31	1280
Agglomerone	36.69	1698	Anisyl alcohol <p->	19.24	1278
Alaskene < α ->	29.31	1512	Anisyl formate	21.52	1330
Alaskene < β ->	28.75	1498	Anisyl methyl ketone	23.75	1380
Allo-cedrol	32.45	1589	Anisyl propanoate	29.26	1510
Allo-hedycaryol	32.45	1589	Anthranilate <ethyl ->	25.23	1414
Alloevodione	43.34	1883	Anthranilate <methyl->	21.72	1334
Allohimachalol	35.25	1661			

Common Name	RT	AI	Common Name	RT	AI
Apiole	35.87	1677	Benzene acetic acid, ethyl ester	17.69	1243
Apodaphylene	36.99	1706	Benzene acetic acid, methyl ester	14.73	1175
Apofarnesal <(E)-dihydro->	29.65	1520	Benzene acetonitrile <3-methoxy->	23.42	1373
Apofarnesal <(Z)-dihydro->	28.77	1498	Benzene methanol < α -methyl->	09.92	1057
Apoarnesol <(E)-dihydro->	32.52	1590	Benzeneacetic acid, 3-methylphenyl ester	41.37	1827
Apoarnesol <(Z)-dihydro->	31.72	1571	Benzeneacetonitrile	12.94	1134
Apritone <(E)->	37.04	1708	Benzenemethanol <2-hydroxy->	18.22	1255
Apritone <(Z)->	36.33	1689	Benzenemethanol <4-hydroxy->	21.76	1335
Arbozol <endo->	26.00	1433	Benzenemethanol <3-hydroxy->	21.92	1339
Arbozol <exo->	26.81	1452	Benzofuran <2,3-dimethyl->	16.64	1219
Arbuseulone <cis->	09.51	1046	Benzoin	40.53	1803
Arbuseulone <trans->	10.22	1066	Benzophenone	33.92	1626
Aristolochene	28.28	1487	Benzyl acetate	13.96	1157
Aristolochene <4,5-di-epi->	27.63	1471	Benzyl acetylacetate	28.24	1486
Aristolone	39.01	1762	Benzyl alcohol	08.77	1026
Aromadendrane <dehydro->	27.16	1460	Benzyl benzoate	38.90	1759
Aromadendrene	26.27	1439	Benzyl butanoate	22.13	1343
Aromadendrene <allo->	27.07	1458	Benzyl cinnamate	50.22	2092
Aromadendrene <epoxide allo->	34.42	1639	Benzyl formate	10.43	1071
Artedouglasia oxide A	30.22	1534	Benzyl isobutanoate	20.09	1297
Artedouglasia oxide B	32.12	1581	Benzyl propanoate	18.29	1257
Artedouglasia oxide C	29.74	1522	Benzyl salicylate	42.68	1864
Artedouglasia oxide D	31.22	1558	Benzyl tiglate	28.71	1497
Artemisole	06.96	0971	Bergamol	09.67	1051
Artemisia alcohol	10.76	1080	Bergamotene < α -cis->	25.10	1411
Artemisia ketone	09.88	1056	Bergamotene < α -trans->	25.99	1432
Artemisia triene	05.61	0923	Bergamolol <(Z)- α -trans->	36.37	1690
Artemisyl acetate	14.48	1169	Bergamolol acetate <(Z)- α -trans->	40.20	1794
Asaricin	28.62	1495	Bergaptene	49.10	2056
Asarone <(E)->	35.79	1675	Bergaptene <iso->	48.39	2033
Asarone <(Z)->	33.53	1616	Beyerene	44.98	1931
Asarone < γ ->	31.78	1572	Bicyclogermacrene	28.83	1500
Ascaridol glycol <trans->	18.71	1266	Bifloratriene	46.56	1977
Ascaridole	17.28	1234	Biotol < β ->	33.39	1612
Atlantol < β ->	33.20	1608	Biotone < β ->	33.18	1607
Atlantone <(E)- α ->	39.59	1777	Biphenyl	23.51	1375
Atlantone <(E)- γ ->	36.98	1706	Bisabol-11-ol <(E)->	35.47	1667
Atlantone <(Z)- α ->	37.39	1717	Bisaboladien-12-ol <2,7(14)->	38.95	1760
Atlantone <(Z)- γ ->	36.51	1694	Bisaboladien-4-ol <2,7(Z)->	33.60	1618
Atlantone < β ->	35.53	1668	Bisabolatrien-1-ol-4-one <2,7(14),10->	41.97	1844
Atractylone	35.09	1657	Bisabolatrien-7-ol <1,3,5->	32.95	1601
Avocadynofuran	41.32	1826	Bisabolenal < β ->	39.26	1768
Azulene	20.11	1298	Bisabolene <(E)- γ ->	30.03	1529
Baeckool	42.58	1861	Bisabolene <(E)-iso- γ ->	29.96	1528
Bakerol	26.47	1444	Bisabolene <(Z)- α ->	29.09	1506
Bancroftinone	39.26	1768	Bisabolene <(Z)- γ ->	29.40	1514
Barbatene < α ->	24.92	1407	Bisabolene < β ->	29.04	1505
Barbatene < β ->	26.32	1440	Bisabolenol < β ->	40.01	1789
Bazzanene (< β ->)	29.62	1519	Bisabolol < α ->	36.17	1685
Benzaldehyde	06.43	0952	Bisabolol < β ->	35.74	1674
Benzaldehyde, dimethyl acetal	11.90	1109	Bisabolol <epi- α ->	36.12	1683
Benzene <1,3-dimethoxy->	14.27	1165	Bisabolol <epi- β ->	35.60	1670
Benzene <1,3-dimethoxy-5-(1-methylethyl)->	24.37	1394	Bisabolol acetate < α ->	40.33	1798
Benzene <2-methoxyethyl->	10.76	1080	Bisabolol acetate <epi- α ->	40.48	1802
Benzene <pentyl->	13.73	1152	Bisabolol oxide A < α ->	38.50	1748
Benzene acetaldehyde	09.14	1036	Bisabolol oxide B < α ->	35.08	1656
			Bisabolone <6R,7R->	38.24	1740

Common Name	RT	AI	Common Name	RT	AI
Bisabolone <6S,7R->	38.52	1748	Cadina-1(6),4-diene <trans->	27.77	1475
Bisabolone oxide A <α->	36.14	1684	Cadina-1,4-diene <cis->	28.62	1495
Borneol	14.29	1165	Cadina-1,4-diene <trans->	30.18	1533
Borneyl acetate	19.62	1287	Cadinene <14-hydroxy-δ->	40.52	1803
Borneyl angelate	31.44	1564	Cadinene <α->	30.33	1537
Botrydiol	36.34	1689	Cadinene <δ->	29.72	1522
Bourbonanol <endo-1->	29.59	1518	Cadinene <γ->	29.35	1513
Bourbonanone <1-nor->	31.32	1561	Cadinene ether <cis->	30.94	1552
Bourbonene <β->	24.05	1387	Cadinene ether <trans->	31.14	1557
Bulnesene <α->	29.20	1509	Cadinol <α->	34.93	1652
Bulnesol	35.60	1670	Cadinol <epi-α->	34.38	1638
Butanal, 2-methyl-	02.02	0654	Caffeine	41.85	1841
Butanediol <2,3->	03.03	0785	Calacorene <α->	30.62	1544
Butanethiol <2-methyl->	03.05	0787	Calacorene <β->	31.43	1564
Butanoate <3-methyl-2-butenyl 2-methyl->	13.08	1137	Calamenen-10-ol <cis->	35.20	1660
Butanoate <3-methyl-2-butenyl 3-methyl->	13.51	1147	Calamenen-10-ol <trans->	35.51	1668
Butanoate <3-methylpentyl, 3-methyl->	15.86	1202	Calamenen-10-one <10-nor->	36.82	1702
Butanoic acid	02.83	0763	Calamenene <10,11-epoxy->	28.47	1491
Butanoic acid <2-methyl->	03.75	0832	Calamenene <5-hydroxy-cis->	37.22	1713
Butanoic acid, 2-methyl-4-methylhexyl ester	20.40	1304	Calamenene <cis->	30.11	1528
Butanoic acid, 2-methyl-4-methylpentyl ester	15.66	1197	Calamenene <trans->	29.69	1521
Butanone <3-hydroxy-4-phenyl-2->	21.95	1339	Callitrisin <dihydro->	46.25	1968
Buten-1-ol <3-methyl-2->	02.85	0765	Callitrisin	40.52	1803
Buten-1-ol <3-methyl-2->, acetate	05.35	0914	Callitrisin	45.34	1941
Buten-1-ol <3-methyl-3->	02.45	0723	Cameroonan-7α-ol	29.26	1510
Buten-1-ol acetate <3-methyl-3->	04.59	0880	Camphene	06.26	0946
Buten-2-ol acetate <2-methyl-3->	02.88	0769	Camphene hydrate	13.43	1145
Butenoic acid, 3-methyl-2-	04.60	0881	Camphenilone	10.70	1078
Butyl acetate	03.31	0807	Camphenol <6->	11.98	1111
Butyl angelate	10.94	1085	Camphenone <6->	11.32	1095
Butyl anthranilate	33.56	1617	Campholenal <α->	12.46	1122
Butyl butanoate	07.58	0993	Camphor	13.28	1141
Butyl butyryl lactate	22.57	1353	Camphoric acid	34.20	1634
Butyl chromone <2->	40.97	1816	Camphorquinone	19.93	1294
Butyl dodecanoate	39.92	1786	Canellal	48.75	2045
Butyl heptanoate	19.74	1289	Capillene	28.53	1493
Butyl levulinate	17.86	1247	Capillin	34.35	1637
Butyl n-hexanoate <n->	15.19	1186	Car-3-en-2-one	17.75	1244
Butyl pentanoate	11.19	1092	Caranone <cis-4->	15.80	1200
Butyl phthalide <3->	34.72	1647	Caranone <trans-4->	15.60	1196
Butyl propanoate	05.13	0907	Carene <δ-2->	07.84	1001
Butyl tiglate	12.68	1127	Carene <δ-3->	08.10	1008
Butylated hydroxy anisole	28.34	1488	Carissone	44.84	1926
Butylated hydroxytoluene	29.43	1514	Carotol	32.67	1594
Butylidene phthalide <(3E)->	37.39	1717	Carpacin <(E)->	32.63	1593
Butylidene-phthalide <(3Z)->	35.65	1671	Carpacin <(Z)->	30.46	1540
Butyrophenone	17.95	1249	Carquejol acetate	20.12	1298
Cabreuva oxide A	26.50	1444	Carvacrol	20.14	1298
Cabreuva oxide B	27.23	1462	Carvacrol acetate	23.32	1370
Cabreuva oxide C	27.43	1466	Carvacrol, ethyl ether	20.10	1297
Cabreuva oxide D	27.94	1479	Carvacrol, methyl ether	17.61	1241
Cadalene	35.80	1675	Carvenone	18.21	1255
Cadalene <8,9-epoxide>	35.77	1674	Carveol <cis->	16.94	1226
Cadin-4-en-7-ol <cis->	34.25	1635	Carveol <trans->	16.44	1215
Cadina-1(6),4-diene <cis->	27.18	1461	Carvomenthyl acetate <neoiso->	22.30	1347
			Carvone	17.53	1239
			Carvone hydrate	25.54	1422

Common Name	RT	AI	Common Name	RT	AI
Carvone oxide <cis>	18.42	1259	Cembrene A <(3Z)->	46.16	1965
Carvone oxide <trans>	19.02	1273	Chamazulene	37.87	1730
Carvotanacetone	17.72	1244	Chamigrene < α ->	28.96	1503
Carvotanacetone <6-hydroxy>	20.63	1309	Chamigrene < β ->	27.82	1476
Carvotanacetone <8-acetoxy>	31.44	1564	Chamipinene < α ->	24.44	1396
Carvyl acetate <cis>	23.08	1365	Chavibetol acetate	29.80	1524
Carvyl acetate <trans>	21.95	1339	Chavicol	17.85	1247
Carvyl propanoate <cis>	25.48	1420	Chenopodiol < α ->	42.36	1855
Carvyl propanoate <trans>	26.90	1454	Chenopodiol < β ->	40.80	1811
Caryolan-8-ol	31.73	1571	Chenopodiol-6-acetate < α ->	45.99	1960
Caryophylla-4(12),8(13)-dien-5 α -ol	34.40	1639	Chenopodiol-6-acetate < β ->	43.58	1890
Caryophylla-4(12),8(13)-dien-5 β -ol	34.40	1639	Chrysanthanol <cis>	14.06	1160
Caryophyllane <4,8 α -epoxy>	25.26	1415	Chrysanthenone	12.53	1124
Caryophyllane <4,8 β -epoxy>	25.59	1423	Chrysanthenyl acetate <cis>	18.51	1261
Caryophyllene <(E)->	25.36	1417	Chrysanthenyl acetate <trans>	17.33	1235
Caryophyllene <(Z)->	24.95	1408	Cineole <1,4->	08.22	1012
Caryophyllene <14-hydroxy-(Z)->	35.45	1666	Cineole <1,8->	08.76	1026
Caryophyllene <14-hydroxy-4,5-dihydro>	36.98	1706	Cineole <dehydro-1,8->	07.45	0988
Caryophyllene <14-hydroxy-9-epi-(E)->	35.53	1668	Cinnamaldehyde <(E)->	18.74	1267
Caryophyllene <9-epi-(E)->	27.33	1464	Cinnamaldehyde <(E)-p-methoxy>	31.38	1562
Caryophyllene acetate	36.79	1701	Cinnamaldehyde <(Z)->	16.53	1217
Caryophyllene oxide	32.16	1582	Cinnamaldehyde <2-hexyl-(E)->	38.51	1748
Caryophyllenyl alcohol	31.70	1570	Cinnamaldehyde <2-hexyl-(Z)->	39.42	1773
Catalpalactone	53.53	2199	Cinnamaldehyde < α -methyl>	21.00	1318
Catalponol	48.08	2023	Cinnamaldehyde <hydro>	32.88	1599
Catalponol <epi>	46.94	1988	Cinnamuldehyde <4-hydroxy-3-methoxy>	37.78	1728
Catalponone	43.71	1894	Cinnamic acid <(E)->	26.80	1452
Carcehol <3-methyl>	18.20	1254	Cinnamyl acetate <(E)->	26.46	1443
Cedr-8(15)-en-10-ol	34.85	1650	Cinnamyl acetate <(Z)->	24.10	1388
Cedr-8(15)-en-9 α -ol	34.83	1650	Cinnamyl acetate < α -amyl>	38.82	1756
Cedr-8(15)-en-9 α -ol. acetate	38.26	1741	Cinnamyl alcohol <(E)->	20.36	1303
Cedrane	26.37	1441	Cinnamyl alcohol <(Z)->	18.38	1259
Cedrane <epi>	26.62	1447	Citral <dimethoxy-(E)->	21.90	1338
Cedrane-diol <8S,13>	43.83	1897	Citral <dimethoxy-(Z)->	20.93	1316
Cedrane-diol <8S,14>	43.54	1889	Citronellal	13.58	1148
Cedranol <5-iso>	35.68	1672	Citronellene < β ->	06.15	0942
Cedranol <5-neo>	36.14	1684	Citronellene <tetrahydro>	05.80	0930
Cedranone <5>	34.00	1628	Citronellic acid	20.75	1312
Cedranoxide <8,14>	30.50	1541	Citronellol	16.80	1223
Cedren-13-ol <8>	36.30	1688	Citronellol isobutanoate	28.07	1482
Cedren-13-ol acetate <8>	39.97	1788	Citronellyl acetate	22.41	1350
Cedren-3-one <2-epi α ->	33.90	1626	Citronellyl anthranilate	52.93	2180
Cedren-3-one <2-epi β ->	34.58	1643	Citronellyl butanoate	30.05	1530
Cedren-9-one < β ->	34.05	1630	Citronellyl formate	18.92	1271
Cedrenal <1,7-diepi α ->	34.42	1639	Citronellyl oxy-acetaldehyde	25.01	1409
Cedrene < α ->	25.06	1410	Citronellyl pentanoate	33.82	1624
Cedrene < β ->	25.42	1419	Citronellyl propanoate	26.47	1444
Cedrene epoxide < α ->	31.84	1574	Citronellyl tiglate <(E)->	35.46	1666
Cedrene epoxide < β ->	33.72	1621	Citronellyl tiglate <(Z)->	35.06	1656
Cedrol	32.91	1600	Citronet	17.30	1234
Cedrol <epi>	33.59	1618	Clovene < α -neo>	26.80	1452
Cedroxyde	37.23	1713	Coahuilensol	14.35	1166
Cedryl acetate	39.21	1767	Coahuilensol, methyl ether	16.64	1219
Cedryl methyl ketone	39.50	1775	Cogeljerene	19.48	1283
Celestolide	37.55	1722	Columellarin	45.70	1952
Cembrene	45.21	1937	Columellarin <dihydro>	43.95	1900
Cembrene A <(3E)->	45.55	1947	Communic acid	58.35	2365

Common Name	RT	AI	Common Name	RT	AI
Conglomerone	40.60	1805	Curcumen-12-ol <β-(Z)->	38.75	1754
Coniferyl alcohol <(E)->	37.98	1733	Curcumen-12-ol <γ-(Z)->	37.80	1728
Coniferyl alcohol <(Z)->	35.48	1667	Curcumen-15-al <γ->	39.19	1766
Copaen-11-ol <α->	30.43	1539	Curcumen-15-al<αr->	37.21	1712
Copaen-4α-ol <B->	32.49	1590	Curcumene <ar->	27.96	1479
Copaene <α->	23.49	1374	Curcumene <β->	29.42	1514
Copaene <β->	25.90	1430	Curcumene <γ->	28.04	1481
Corocalene <α->	33.75	1622	Curcumenol	37.95	1733
Costol <α->	39.42	1773	Curcuphenol	37.38	1717
Costol <β->	39.15	1766	Curzerene	28.79	1499
Costol <γ->	38.40	1745	Curzerenone	33.11	1605
Coumarin	25.97	1432	Cyclamen aldehyde	27.10	1459
Coumarin <3-methyl->	28.65	1495	Cyclobutanone	02.00	0650
Coumarin <3,4-dihydro->	23.66	1378	Cyclocitral <β->	16.55	1217
Coumarin <4-hydroxy->	40.22	1795	Cyclocolorenone	38.92	1759
Coumarin <6-methyl->	30.98	1553	Cyclocolorenone <epi->	39.48	1774
Coumarin <7-hydroxy->	41.69	1836	Cyclododecanone	28.92	1502
Coumarin <7-hydroxy-4-methyl->	46.69	1981	Cyclogeranyl acetate <α->	28.02	1480
Coumarin <7-hydroxy-4,8-dimethyl->	47.75	2013	Cyclohexadecanolide	45.07	1933
Cresol <2-methoxy-p->	15.27	1188	Cyclohexadiene <2-methyl-1,3->	02.81	0760
Cresol <meta->	10.45	1072	Cyclohexadiene <1-methyl-1,3->	02.90	0771
Cresol <o->	09.65	1050	Cyclohexanedione <3-methyl-1,2->	10.94	1085
Cresol <p->	10.43	1071	Cyclohexanol <3-methyl->	05.95	0935
Cresol acetate <meta->	14.00	1158	Cyclohexanol acetate <cis-2-tert-butyl->	19.85	1292
Cresol acetate <o->	12.98	1134	Cyclohexanol acetate <trans-2-tert-butyl->	20.74	1312
Cresol acetate <p->	14.35	1166	Cyclohexanone <3-methyl->	06.21	0945
Cresol methyl ether <o->	07.96	1005	Cyclohexene <3-methylene->	03.03	0785
Cresol octanoate <p->	39.56	1777	Cyclohexene <3,3,5-trimethyl->	03.60	0824
Cresol acetate <methyl->	24.76	1403	Cyclohexene <3,5,5-trimethyl->	03.74	0832
Cresol isobutyrate <p->	20.42	1305	Cyclohexyl anthranilate	43.22	1880
Croweacin	27.04	1457	Cyclohexyl formate	06.49	0954
Cryptomeridiol	40.86	1813	Cyclohexyl propanoate	12.79	1130
Cryptomerione	37.62	1724	Cycloisolongifol-5-ol <trans->	29.35	1513
Cryptone	15.07	1183	Cycloisolongifolene <didehydro->	20.96	1317
Cryptone <4-hydroxy->	20.83	1314	Cyclopent-2-en-1-one <2-pentyl->	19.69	1288
Cubeban-11-ol	32.70	1595	Cyclopent-2-enone <5-methylene-2,3,4,4-tetramethyl->	15.07	1183
Cubebene <α->	22.33	1345	Cyclopentadecanolide	41.56	1832
Cubebene <β->	24.04	1387	Cyclopentadiene carboxylic acid <3,4,5,5-tetramethyl-1,3->	19.53	1285
Cubebol	29.41	1514	Cyclopentanedione <3-methyl-1,2->	08.43	1017
Cubebol <10-epi->	30.19	1533	Cyclopentanol	03.04	0786
Cubebol <epi->	28.55	1493	Cyclopentene <3,5-dimethylene-1,4,4-trimethyl->	05.83	0931
Cubanol	34.63	1645	Cyclosativene	23.25	1369
Cubanol <1,10-di-epi->	33.60	1618	Cycloseychellene	24.90	1406
Cubanol <1-epi->	33.95	1627	Cymen-7-ol <p->	19.74	1289
Cubifene	43.15	1878	Cymen-7-ol acetate <p->	25.51	1421
Cumaerene	27.57	1470	Cymen-8-ol <meta->	14.78	1176
Cumene	05.63	0924	Cymen-8-ol <p->	14.91	1179
Cumenol <m->	16.85	1224	Cymen-9-ol <p->	15.98	1204
Cumenol <o->	15.61	1196	Cymene <2,5-dimethoxy-p->	25.66	1424
Cumin aldehyde	17.47	1238	Cymene <o->	08.59	1022
Cuparenal	38.64	1751	Cymene <p->	08.53	1020
Cuparene	29.00	1504	Cymenene <meta->	10.82	1082
Cuparenic acid	45.02	1932	Cymenene <p->	11.09	1089
Cuprenen-1-ol <4->	36.45	1692	Cyperene	24.54	1398
Cuprenene <α->	29.03	1505			
Cuprenene <δ->	30.54	1542			
Cuprenene <γ->	30.14	1532			

Common Name	RT	AI	Common Name	RT	AI
Cyperotundone	36.56	1695	Deodarone	36.68	1698
Damascenone <(E)-β>	23.87	1383	Desmethoxy eneeccalin	34.68	1646
Damascenone <(Z)-β>	22.89	1361	Dichlorobenzene <1,4>	08.18	1011
Damascone <(E)-α>	24.28	1392	Dichloroethane <1,2>	01.99	0647
Damascone <(E)-β>	25.17	1413	Dictamine	44.97	1930
Damascone <(Z)-α>	22.64	1355	Dictamnol	25.79	1428
Damascone <(Z)-β>	24.00	1386	Dictamnol <8-epi>	23.69	1379
Dauca-4(11),7-diene <trans>	31.11	1556	Dicyclohexyl amine	25.33	1417
Dauca-4(11),8-diene	30.05	1530	Diethyl phthalate (plastizer)	32.50	1590
Dauca-5,8-diene	27.60	1471	Diethyl succinate	14.76	1176
Daucene	23.74	1380	Difurfuryl sulfide	27.10	1459
Daucol	34.47	1641	Dihydro agarofuran <4α-hydroxy>	34.87	1651
Davana, bis-ether	26.73	1450	Dihydro agarofuran <β>	28.95	1503
Davanafuran <cis, threo>	25.23	1414	Dihydro carveol	15.45	1192
Davanol acetate	36.32	1689	Dihydro carveol <iso>	16.34	1212
Davanol D1 (isomer 1)	33.47	1615	Dihydro carveol <neo>	15.47	1193
Davanol D2 (isomer 2)	33.95	1627	Dihydro carveol <neo-iso>	16.93	1226
Davanone	32.37	1587	Dihydro carveol acetate	20.48	1306
Davanone <nor>	17.02	1228	Dihydro carveol acetate <iso>	21.36	1326
Davanone B	31.46	1564	Dihydro carveol acetate <neo>	20.48	1306
Davanone-2-ol <β>	37.41	1718	Dihydro carveol acetate <neoiso>	22.69	1356
Dec-1-en-3-ol	14.79	1177	Dihydro carvone <cis>	15.41	1191
Dec-9-en-1-ol	18.57	1263	Dihydro carvone <trans>	15.80	1200
Decadienal <(2E,4E)>	20.87	1315	Dihydro citronellol	15.55	1194
Decadienal <(2E,4Z)>	19.86	1292	Dihydro citronellol acetate	21.04	1319
Decadienol <(2E,4E)>	21.07	1319	Dihydro myrcenol	10.35	1069
Decalactone <δ>	28.55	1493	Dihydro myrcenol acetate	16.39	1214
Decalactone <γ>	27.35	1465	Dihydroagarofuran <4-epi-cis>	28.80	1499
Decalactone <γ-methyl-γ>	28.08	1482	Dihydroangelicin <2',3',3'-trimethyl-2',3'->	43.68	1893
Decanal <n>	15.83	1201	Dihydroatlantone <(E)-10,11>	35.52	1668
Decane <1,1-dimethoxy>	23.52	1375	Dihydroisojasmone	21.97	1340
Decane <n>	07.77	1000	Dihydroagarofuran <cis>	29.60	1519
Decanediol <1,10>	30.75	1547	Dill apiole	33.66	1620
Decanoic acid	23.02	1364	Dill ether	15.11	1184
Decanol <2>	15.72	1198	Dimethoxy,5-vinyl-1,2-benzodioxide		
Decanol <3>	15.60	1196	<4,6>	34.94	1653
Decanol <n>	18.73	1266	Dimethoxybenzene <1,4>	14.12	1161
Decanone <2>	15.38	1190	Dimethyl aniline <2,6>	14.21	1163
Decanone <3>	15.16	1185	Dimethyl phenethyl acetate <α, α>	21.04	1319
Decen-1-ol <(2E)>	18.80	1268	Dimethyl phenol <2,6>	11.74	1106
Decen-1-ol <(4E)>	18.38	1259	Dimethyl styrene <2,5>	11.44	1099
Decen-1-ol <(4Z)>	18.24	1255	Dimethyl-3-pentanone <2,4>	03.06	0788
Decen-2-one <(3E)>	17.30	1234	Dimethyl-4-heptanone <3,5>	07.02	0973
Decenal <(2E)>	18.44	1260	Disulfide, diphenyl	41.30	1825
Decenal <(4E)>	15.60	1196	Disulfide, dipropyl	11.60	1102
Decenal <(4E)>, diethyl acetal	27.73	1474	Docosane <n>	53.54	2200
Decenal <(4Z)>	15.48	1193	Docosene <1>	53.22	2189
Decenal <(4Z)>, diethyl acetal	27.05	1457	Dodecadien-1-al <(2Z,6E)>	26.51	1445
Decenal <(7Z)>	15.74	1199	Dodecadienal <(2E,4E)>	29.56	1518
Decene <1>	07.39	0986	Dodecadienol <(2E,4E)>	29.77	1523
Decenoic acid <9>	22.80	1359	Dodecalactone <δ>	36.91	1704
Decenyl acetate <(2E)>	24.96	1408	Dodecalactone <γ>	35.85	1676
Decenyl acetate <9>	24.57	1399	Dodecanal	24.95	1408
Decyl acetate	24.94	1407	Dodecane <n>	15.77	1200
Decyl anthranilate	54.75	2241	Dodecanoic acid	31.47	1565
Decyl propanoate	28.89	1501	Dodecanol <n>	27.52	1469
Dendrolasin	31.69	1570	Dodecanone <3>	24.15	1389

Common Name	RT	AI	Common Name	RT	AI
Dodecen-1-ol <(2E)->	27.55	1469	Ethyl butanoate	03.22	0802
Dodecenal <(2E)->	27.33	1464	Ethyl chromone <2->	33.42	1613
Dodecene <1->	15.25	1187	Ethyl chrysanthemumate <cis->	18.87	1270
Dodecyl acetate <(2E)->	33.20	1608	Ethyl chrysanthemumate <trans->	19.18	1277
Dodecyl acetate	33.17	1607	Ethyl cinnamate <(E)->	27.37	1465
Dolabradiene	46.42	1973	Ethyl cinnamate <(Z)->	23.55	1376
Dolabradiene <13-epi->	47.35	2000	Ethyl decanoate	24.40	1395
Dotriacontane	78.48	3200	Ethyl dodecanoate	32.68	1594
Dracunculifolol <cis->	30.50	1541	Ethyl ether	01.63	0529
Dracunculifolol <10-epi-cis->	30.45	1540	Ethyl furan <2->	02.25	0702
Drim-8(12)-ene	28.45	1491	Ethyl geranate	24.37	1394
Drimenin	45.34	1941	Ethyl heptanoate	11.40	1097
Drimenol	39.16	1766	Ethyl hex-(2E)-enoate	09.20	1038
Drimenone	40.12	1792	Ethyl hexadecanoate	47.09	1992
Duprezianen-3-one <2-epi-β->	34.42	1639	Ethyl hexanoate	07.71	0997
Duprezianene <α->	24.07	1387	Ethyl hexanoic acid <2->	12.30	1119
Duprezianene <β->	25.51	1421	Ethyl hexyl acetate <2->	13.59	1149
Eicosane <n->	47.33	2000	Ethyl hydroquinone	25.19	1413
Eicosene <1->	46.92	1987	Ethyl isovalerate	04.04	0849
Elema-1,3-dien-8-ol <7-acetoxy->	39.89	1786	Ethyl levulinate	09.64	1050
Elemene <β->	24.15	1389	Ethyl menthone <2->	19.34	1280
Elemene <δ->	21.77	1335	Ethyl nerolate	22.48	1351
Elemene <γ->	26.08	1434	Ethyl oct-(2E)-enoate	17.80	1245
Elemenone <cis-β->	32.45	1589	Ethyl oct-(2Z)-enoate	15.75	1199
Elemenone <trans-β->	32.99	1601	Ethyl octadecanoate	53.43	2196
Elemicin	31.09	1555	Ethyl octanoate	15.63	1196
Elemicin <6-methoxy->	32.70	1595	Ethyl pent-4-enoate	04.65	0884
Elemodiol <8α-11->	38.44	1746	Ethyl pentanoate	04.96	0901
Elemol	30.78	1548	Ethyl propanoate	02.34	0711
Elemol acetate	35.97	1680	Ethyl salicylate	18.72	1266
Elsholtzia ketone	15.86	1202	Ethyl sorbate	11.20	1092
Elsholtzia ketone <β-dehydro->	20.29	1302	Ethyl tetradecanoate	40.25	1795
Elsholtzia ketone <α-dehydro->	16.55	1217	Ethyl tiglate	05.78	0929
Encicalin	42.75	1866	Ethyl-(2E)-decanoate	25.33	1417
Epizonarene	28.88	1501	Ethyl-(2E,4Z)-decaenoate	27.45	1467
Epoxy-ocimene <(E)->	13.10	1137	Ethyl-(3E)-hexenoate	07.91	1003
Epoxy-ocimene <(Z)->	12.72	1128	Ethyl-(4E)-decanoate	23.75	1380
Epoxy-pseudoisoeugenyl 2-methylbutyrate	43.75	1895	Ethyl-(4E)-octenoate	15.12	1184
Epoxy-pseudoisoeugenyl isobutyrate	40.16	1793	Ethyl-2-octynoate	19.40	1282
Epoxymyrcene <6,7->	11.14	1090	Ethyl-3(2-furyl)-propanoate	14.85	1178
Eremoligenol	34.04	1629	Ethylene brassylate	47.82	2015
Eremophila ketone	31.22	1558	Eucarvone	13.47	1146
Eremophilone	38.02	1734	Eudesm-11-en-4α, 6α-diol	40.70	1808
Eremophilone <8-hydroxy->	42.05	1846	Eudesm-7(11)-en-4-ol	36.74	1700
Eremophilone <8-hydroxy-dihydro->	38.80	1756	Eudesm-7(11)-en-4-ol, acetate	41.80	1839
Ethoxy ethanol <2->	02.33	0711	Eudesma-4(15),7-dien-1β-ol (impure)	36.27	1687
Ethoxy ethyl acetate <2->	05.03	0903	Eudesma-6,11-diene <cis->	28.36	1489
Ethyl 2-methyl pentanoate	05.81	0930	Eudesmol <10-epiγ->	33.77	1622
Ethyl 2-methyl-2-pentenoate <(E)->	08.41	1017	Eudesmol <5-epi-7-epiα->	33.17	1607
Ethyl 2-methyl-2-pentenoate <(Z)->	08.51	1019	Eudesmol <7-epiα->	35.29	1662
Ethyl 2-methyl-4-pentenoate	05.53	0921	Eudesmol <α->	34.91	1652
Ethyl 2-nonynoate	23.78	1381	Eudesmol <β->	34.79	1649
Ethyl 3-hydroxy hexanoate	12.40	1121	Eudesmol <dihydro->	35.25	1661
Ethyl 3-methyl pentanoate	06.34	0949	Eudesmol <γ->	34.08	1630
Ethyl acetate	01.80	0606	Eudesmol acetate <α->	40.21	1794
Ethyl acetophenone <p->	19.30	1279	Eudesmol acetate <β->	40.11	1792
Ethyl benzoate	14.47	1169	Eudesmol acetate <γ->	39.80	1783

Common Name	RT	AI	Common Name	RT	AI
Eugenol	22.70	1356	Furfural <5-methyl->	06.56	0957
Eugenol <dihydro->	23.15	1366	Furfuryl acetate	07.42	0987
Eugenol acetate	29.70	1521	Furfuryl acetone	14.94	1180
Eugenol acetate <dihydro->	30.30	1536	Furfuryl butanoate	14.50	1170
Eupatoriochromene	38.98	1761	Furfuryl heptanoate	27.42	1466
Evodione	44.08	1904	Furfuryl hexanoate	23.16	1367
Evodone	21.85	1337	Furfuryl methyl sulfide	07.74	0998
Exalatacin	35.01	1655	Furfuryl octanoate	31.52	1566
Falcarinol <(Z)->	48.44	2035	Furfuryl pentanoate	18.82	1269
Farnal	29.18	1508	Furfuryl propionate	10.88	1083
Farnesal <(2E,6E)->	38.22	1740	Europelargone A	30.39	1538
Farnesal <(2Z,6E)->	37.31	1715	Geijerene	13.15	1138
Farnesal <(2Z,6Z)->	36.13	1684	Geosmin	24.57	1399
Farnesal <(2E,6Z)->	37.22	1713	Geranial	18.62	1264
Farnesene <(E)-β->	26.92	1454	Geraniol	17.95	1249
Farnesene <(E,E)-α->	29.03	1505	Geranyl 2-methyl butanoate	32.93	1601
Farnesene <(Z)-β->	26.33	1440	Geranyl acetate	23.70	1379
Farnesoic acid <(2E,6E)->	40.98	1816	Geranyl acetone	26.85	1453
Farnesol <(2E,6E)->	38.30	1742	Geranyl anthranilate	54.04	2217
Farnesol <(2E,6Z)->	37.27	1714	Geranyl benzoate	45.92	1958
Farnesol <(2Z,6E)->	37.58	1722	Geranyl butanoate	31.36	1562
Farnesol <(2Z,6Z)->	36.68	1698	Geranyl formate	20.11	1298
Farnesol <2,3-dihydro >	36.31	1688	Geranyl isobutanoate	29.41	1514
Farnesyl acetate <(2E,6E)->	42.01	1845	Geranyl isovalerate	33.15	1606
Farnesyl acetate <(2Z,6E)->	41.16	1821	Geranyl linalool <(E,E)->	48.16	2026
Farnesyl acetone <(5E,9E)->	44.37	1913	Geranyl linalool <(E,Z)->	46.90	1987
Farnesyl acetone <(5E,9Z)->	43.45	1886	Geranyl linalool <(Z,E)->	47.29	1998
Farnesyl acetone <(5Z,9E)->	43.55	1889	Geranyl linalool <(Z,Z)->	45.98	1960
Farnesyl acetone <(Z,Z)->	42.54	1860	Geranyl propanoate	27.82	1476
Fenchene <α->	06.22	0945	Geranyl tiglate	36.59	1696
Fenchocamphorone <α->	11.69	1104	Geranyl valerate	35.02	1655
Fenchol <2-ethyl-endo->	19.62	1287	Germacre-4(15),5,10(14)-trien-1α-ol	36.18	1685
Fenchol <2-ethyl-exo->	20.08	1297	Germacrene A	29.18	1508
Fenchol <endo->	12.10	1114	Germacrene B	31.24	1559
Fenchol <exo->	12.28	1118	Germacrene D	28.15	1484
Fenchone	10.88	1083	Germacrene D-4-ol	31.85	1574
Fenchyl acetate <endo->	16.57	1218	Germacrone	36.48	1693
Fenchyl acetate <exo->	17.09	1229	Gleenol	32.33	1586
Ferruginol <6-keto->	60.84	2456	Globulol	32.50	1590
Ferruginol <6,7-dehydro->	56.92	2315	Glycerol	06.35	0950
Ferruginol <cis->	58.50	2370	Gossonol	34.28	1636
Ferruginol <trans->	57.39	2331	Grandiflorene	52.76	2174
Ferruginol acetate <cis->	59.63	2411	Guai-3,10(14)-dien-11-ol	35.84	1676
Ferruginol acetate <trans->	58.28	2363	Guai-3,10(14)-diene <9,11-epoxy->	32.94	1601
Ferula lactone I	46.45	1974	Guai-3,9-dien-11-ol <cis->	34.75	1648
Flavesone	30.69	1545	Guaiacol <α->	11.00	1087
Flourensadiol	42.84	1869	Guaiacol <p-vinyl->	20.59	1309
Foeniculin	35.87	1677	Guaiacol acetate <α->	18.51	1261
Fokienol	32.73	1596	Guaiadiene <6,9->	26.39	1442
Fragranol	16.39	1214	Guiazulene	39.66	1779
Fruitalcur (=ethyl 2-methyl-3-pentenoate)	06.00	0937	Guaiene <α->	26.20	1437
Funebrene <2-epi-α->	23.75	1380	Guaiene <cis-β->	28.51	1492
Funebrene <2-epi β->	25.11	1411	Guaiene <trans-β->	28.92	1502
Funebrene <α->	24.71	1402	Guaiol	32.92	1600
Funebrene <β->	25.19	1413	Guaiol acetate	37.68	1725
Furan <2-acetyl-5-methyl->	08.95	1031	Gurjunene <α->	25.00	1409
Furfural	03.67	0828	Gurjunene <β->	25.95	1431

Common Name	RT	AI	Common Name	RT	AI
Gurjunene <γ>	27.80	1475	Hexadecene <1>	32.44	1588
Gymnomitrol	35.16	1658	Hexadecyl acetate	47.45	2003
Gymnomitron	34.10	1631	Hexadienal <(2E,4E)->	05.14	0907
Hasmigone <(E)->	21.68	1333	Hexadienol <(2E,4E)->	05.29	0912
Hasmigone <(Z)->	21.39	1327	Hexadienol acetate <(2E,4E)->	10.11	1063
Hedycaryol	30.72	1546	Hexadienol butanoate <(2E,4E)->	17.91	1248
Helifolen-12-al A <syn-anti-anti>	32.58	1592	Hexadienol isobutanoate <(2E,4E)->	15.90	1202
Helifolen-12-al B <anti-anti-anti>	32.58	1592	Hexadienol propanoate <(2E,4E)->	14.05	1159
Helifolen-12-al C <anti-syn-syn>	33.64	1619	Hexalactone<γ>	09.33	1042
Helifolen-12-al D <syn-syn-syn>	33.64	1619	Hexanal	03.19	0801
Helifolenol A	35.74	1674	Hexanal, dimethyl acetal	07.01	0973
Helifolenol B	35.89	1677	Hexane <n>	01.88	0623
Helifolenol C	36.03	1681	Hexanedione <3,4>	03.17	0800
Helifolenol D	36.03	1681	Hexanoic acid (=caproic acid)	06.84	0967
Heneicosane <n>	50.47	2100	Hexanoic acid <2-methyl>	08.80	1027
Hepta-1,3,5-triyn-1-yl-phenyl->	37.48	1720	Hexanoic acid <5-methyl>	09.03	1033
Heptacosane	67.12	2700	Hexanol <2>	03.14	0796
Heptadecane <n>	36.74	1700	Hexanol <3-methylthio-1>	16.10	1207
Heptadienal <(2E,4E)->	07.99	1005	Hexanol <n>	04.28	0863
Heptadienol <(2E,4E)->	08.27	1013	Hexen-3-ol <1>	02.88	0769
Heptalactone<γ>	13.38	1144	Hexenal <(2E)->	03.99	0846
Heptan-2-ol <6-methyl>	06.58	0958	Hexenal <(2E)->, diethyl acetal	11.42	1098
Heptan-2-one <6-methyl-6-(3-methylphenyl)->	34.41	1639	Hexenal <(2Z)->, diethyl acetal	10.80	1081
Heptanal	04.98	0901	Hexenal <(3E)->	03.10	0792
Heptanal, diethyl acetal-	15.26	1188	Hexenal <(3Z)->	03.15	0797
Heptanal, dimethyl acetal	10.52	1074	Hexenal <diethyl acetal <(3E)->	11.01	1087
Heptane	02.23	0700	Hexenal <diethyl acetal <(3Z)->	11.14	1090
Heptanol <2>	04.84	0894	Hexenoic acid <(2E)->	07.99	1005
Heptanol <2,6-dimethyl-2>	07.48	0989	Hexenoic acid <(3E)->	07.30	0983
Heptanol <4>	04.68	0885	Hexenol <(2E)->	04.13	0854
Heptanol <n>	06.63	0959	Hexenol <(2Z)->	04.22	0859
Heptanone <2>	04.74	0889	Hexenol <(3E)->	03.96	0844
Heptanone <2-methyl-4>	05.46	0918	Hexenol <(3Z)->	04.06	0850
Heptanone <3-methyl-4> (impure)	05.46	0918	Hexenol <(4Z)->	04.42	0871
Heptanone <4-methyl-3>	05.66	0925	Hexenyl-(3Z)-hexenoate <(3Z)->	23.86	1383
Heptanone <5-methyl-3>	05.98	0936	Hexenyl 2-methyl butanoate <(3Z)->	17.07	1229
Hepten-1-ol <(2E)->	06.58	0958	Hexenyl 2-methyl-2-pentenoate <(3Z)->	24.61	1400
Hepten-1-ol <(4Z)->	06.63	0959	Hexenyl 3-methyl butanoate <(3Z)->	17.22	1232
Hepten-2-ol <6-methyl-5>	07.47	0989	Hexenyl acetate <(2E)->	08.17	1010
Hepten-2-one <(3E)->	05.71	0927	Hexenyl acetate <(3E)->	07.84	1001
Hepten-2-one <6-methyl-5>	07.25	0981	Hexenyl acetate <(3Z)->	07.93	1004
Heptenal <(2E)->	06.27	0947	Hexenyl angelate <(3Z)->	19.10	1275
Heptenal <(4E)->, diethyl acetal	15.26	1188	Hexenyl anthranilate <(3Z)->	41.13	1820
Heptenal <(4Z)->	04.82	0893	Hexenyl benzoate <(2E)->	32.37	1587
Heptenal <(4Z)->, diethyl acetal	14.89	1179	Hexenyl benzoate <(3Z)->	31.48	1565
Heptenol <(3Z)->	06.28	0947	Hexenyl butanoate <(2E)->	15.48	1193
Heptenol acetate <(3Z)->	11.42	1098	Hexenyl butanoate <(3Z)->	15.09	1184
Heptenyl acetate <(2E)->	11.99	1111	Hexenyl caproate <(2E)->	23.99	1385
Heptenyl acetate <(2Z)->	11.56	1101	Hexenyl cinnamate <(3Z)->	43.25	1880
Heptyl acetate	12.02	1112	Hexenyl formate <(2E)->	05.46	0918
Heptyl acetate <2>	09.19	1038	Hexenyl formate <(3Z)->	05.32	0913
Heptyl isobutanoate	17.84	1246	Hexenyl hexanoate <(3Z)->	23.65	1378
Hexacosane	64.61	2600	Hexenyl isobutanoate <(3Z)->	13.30	1142
Hexadecane <n>	32.89	1600	Hexenyl isovalerate <(2E)->	17.71	1243
Hexadecanoic acid	45.95	1959	Hexenyl isovalerate <(2Z)->	17.60	1241
Hexadecanol <n>	43.03	1874	Hexenyl lactate <(3Z)->	15.68	1197
			Hexenyl methyl carbonate <(3Z)->	11.11	1090

Common Name	RT	AI	Common Name	RT	AI
Hexenyl oxy-acetaldehyde <(3E)->	10.12	1063	Hydroxy citronellol	22.83	1359
Hexenyl oxy-acetaldehyde <(3Z)->	10.02	1060	Hydroxybenzaldehyde <4->	22.65	1355
Hexenyl phenyl acetate <(2E)->	34.24	1635	Hydroxybutanoic acid lactone <4->	05.05	0904
Hexenyl phenyl acetate <(3Z)->	34.16	1632	Hydroxydiphenyl methane <2->	35.75	1674
Hexenyl propanoate <(2E)->	11.65	1103	Incensole	52.26	2158
Hexenyl propionate <(3Z)->	11.30	1095	Incensole acetate	53.05	2184
Hexenyl pyruvate <(3Z)->	14.99	1181	Incensole oxide	55.88	2279
Hexenyl salicylate <(3Z)->	35.51	1668	Indanol <5->	21.90	1338
Hexenyl tiglate <(3E)->	20.88	1315	Indipone	28.69	1496
Hexenyl tiglate <(3Z)->	21.07	1319	Indole	19.76	1290
Hexenyl valerate <(2E)->	19.64	1287	Intermedeol	35.42	1665
Hexenyl valerate <(2Z)->	19.40	1282	Intermedeol <neo->	35.15	1658
Hexenyl valerate <(3Z)->	19.28	1279	Ionol < α -(E)->	23.55	1376
Hexyl (2E) butanoate	17.49	1238	Ionol < α -isomethyl-(E)->	27.08	1458
Hexyl 2-furoate	26.62	1447	Ionol < β ->	25.15	1412
Hexyl 2-methyl butanoate <n->	17.23	1233	Ionol <methyl- β -(E)->	27.96	1479
Hexyl 2-methyl 3-pentenoate	21.11	1320	Ionol acetate <(E)- α -isomethyl->	31.57	1567
Hexyl acetate	08.05	1007	Ionol acetate <(Z)- α -isomethyl->	31.08	1555
Hexyl benzoate <n->	32.05	1579	Ionol acetate < β -(E)->	30.34	1537
Hexyl butanoate	15.40	1191	Ionone <(E)- α ->	25.81	1428
Hexyl hexanoate	23.83	1382	Ionone <(E)- β ->	28.30	1487
Hexyl isobutanoate	13.50	1147	Ionone <6-methyl- α ->	29.65	1520
Hexyl isovalerate	17.59	1241	Ionone <dihydro- α ->	25.10	1411
Hexyl octanoate	32.12	1581	Ionone <dihydro- β ->	26.08	1434
Hexyl phenylacetate	33.91	1626	Ionone <dimethyl->	31.49	1565
Hexyl propanoate	11.53	1101	Ionone <isomethyl- α -(E)->	27.92	1478
Hexyl tiglate	21.54	1330	Ionone <methyl- γ ->	28.00	1480
Heyderiol	59.05	2390	Ipsdienol	13.23	1140
Hillone	33.18	1607	Ipsenol	11.49	1100
Hillyl acetate	41.72	1837	Iridolactone <trans, cis->	26.46	1443
Himachal 4-en 1 β -ol <11aH->	36.72	1699	Ishwarane	27.35	1465
Himachala-1,4-diene <11aH->	28.20	1485	Ishwarone	36.00	1680
Himachalene < α ->	26.68	1449	Isoamyl 3 (2-furan)propionate	25.88	1430
Himachalene < α -dehydro-ar->	29.48	1516	Isoamyl acetoacetate	14.72	1175
Himachalene < β ->	28.86	1500	Isoamyl angelate	13.34	1143
Himachalene < γ ->	28.05	1481	Isoamyl benzoate	26.03	1433
Himachalene < γ -dehydro-ar->	30.08	1530	Isoamyl benzyl ether	20.64	1310
Himachalene epoxide	32.01	1578	Isoamyl cinnamate <(E)->	38.21	1740
Himachalene oxide < β ->	33.48	1615	Isoamyl dodecanoate	41.97	1844
Himachalol	34.91	1652	Isoamyl geranate	34.85	1650
Hinesol	34.45	1640	Isoamyl hexanoate	17.83	1246
Hinesol acetate	39.79	1783	Isoamyl isobutyrate	08.05	1007
Hinokienone	63.50	2557	Isoamyl nerolate	33.00	1602
Hinokiol	64.33	2589	Isoamyl nonanoate	30.59	1543
Hinokione	63.30	2549	Isoamyl octanoate	26.42	1442
Homoisobaeekeol	41.80	1839	Isoamyl propionate	06.64	0960
Homoisobaeekeol methyl ether	42.93	1871	Isoamyl tiglate	13.57	1148
Humulene <14-hydroxy α ->	37.24	1713	Isobaeekeol	38.70	1753
Humulene < α ->	26.82	1452	Isobaeekeol methyl ether	39.58	1777
Humulene < β ->	26.16	1436	Isobazzanene	26.16	1436
Humulene epoxide II	33.20	1608	Isobicyclogermacreneal	37.95	1733
Hyacinth Body #3	26.19	1437	Isoborneol	13.87	1155
Hydrocinnamyl acetate	23.11	1366	Isoborneol <8-isobutyryloxy->	34.14	1632
Hydrocinnamyl alcohol	16.87	1224	Isobornyl 2-methyl butanoate	29.76	1523
Hydroxy acetophenone <2'->	13.87	1155	Isobornyl acetate	19.48	1283
Hydroxy citronellal	19.60	1286	Isobornyl formate	17.36	1235
Hydroxy citronellal <diethyl acetal->	30.14	1532	Isobornyl isobutanoate	25.95	1431

Common Name	RT	AI	Common Name	RT	AI
Isobornyl isobutanoate <5-hydroxy->	35.08	1656	Isophorone <4-keto->	13.23	1140
Isobornyl isobutanoate <5-oxy->	33.04	1603	Isophorone <4-methylene->	16.48	1216
Isobornyl isobutanoate <6-hydroxy->	34.56	1643	Isophyllocladene	46.18	1966
Isobornyl isobutanoate <8-hydroxy->	35.75	1674	Isophytol	45.52	1946
Isobornyl isobutanoate <8-isobutyryloxy->	43.56	1889	Isopimara-9(11),15-diene	44.11	1905
Isobornyl isovalerate	29.70	1521	Isopimarol	56.77	2310
Isobornyl n-butanoate	27.72	1473	Isopinipinellin	54.63	2237
Isobornyl propanoate	23.88	1383	Isoprenyl cinnamate <(E)-methyl->	49.40	2065
Isobutanol	02.00	0650	Isoprenyl cinnamate <(Z)-methyl->	46.34	1970
Isobutyl acetate	02.81	0761	Isoprenyl oxycoumarin <7->	50.95	2115
Isobutyl acetoacetate	10.00	1060	Isopropyl butanoate	03.81	0836
Isobutyl angelate	09.45	1045	Isopropyl hexadecanoate	48.09	2024
Isobutyl benzoate	21.39	1327	Isopropyl isobutyrate	03.08	0790
Isobutyl cinnamate	33.80	1623	Isopropyl phenylacetate	18.77	1267
Isobutyl formate	02.14	0680	Isopropyl tetradecanoate	41.42	1828
Isobutyl hexanoate	13.62	1149	Isopropyl tiglate	06.93	0970
Isobutyl isobutyrate	05.18	0908	Isopropyl-2-methoxypyrazine <3->	11.14	1090
Isobutyl phenylacetate	24.01	1386	Isopropyl-2-methyl butyrate	04.59	0880
Isobutyl salicylate	25.59	1423	Isopropyl-4-methyl thiazole <2->	08.24	1012
Isobutyl tiglate	11.15	1088	Isopropyl-5-methyl-(2E)-hexenal <2->	11.66	1104
Isobutyl-(2E)-butenoate	07.62	0994	Isopropyl-5-methyl-(2Z)-hexenal <2->	12.00	1112
Isocitral <(E)->	14.82	1177	Isopulegol	13.43	1145
Isocitral <(Z)->	14.06	1160	Isopulegol <iso->	13.86	1155
Isocitral <exo->	13.21	1140	Isopulegol <neo->	13.37	1144
Isocitronellene	05.46	0918	Isopulegol <neoiso->	14.38	1167
Isocomene <α->	24.05	1387	Isopulegyl acetate	19.10	1275
Isocomene <β->	24.94	1407	Isopulegyl acetate <iso->	19.45	1283
Isocroceacin <(E)->	30.98	1553	Isopulegyl acetate <neo->	19.05	1274
Isodaucene	28.83	1500	Isopulegyl acetate <neoiso->	20.73	1312
Isoclemicin <(E)->	31.62	1568	Isoquinoline	17.97	1249
Isoclemicin <(Z)->	31.62	1568	Isosafrole <(E)->	23.45	1373
Isoeugenol <(E)->	26.67	1448	Isosafrole <(Z)->	21.82	1336
Isoeugenol <(Z)->	24.90	1406	Isotorquatone	40.42	1800
Isoeugenol acetate <(E)->	33.46	1614	Isotorquatone <demethyl->	41.96	1844
Isoeugenol acetate <(Z)->	31.51	1566	Isovalencenol <(E)->	40.15	1793
Isoeugenyl benzyl ether <(E)->	51.24	2125	Isovaleraldehyde	02.04	0658
Isoeugenyl benzyl ether <(Z)->	49.60	2072	Isovaleric acid	03.66	0827
Isoeugenyl phenylacetate <(E)->	56.42	2297	Italicene	24.84	1405
Isoeugenyl phenylacetate <(Z)->	54.76	2241	Italicene <iso->	24.69	1401
Isogeijerene C	17.83	1246	Italicene epoxide	30.74	1547
Isobibaene	45.05	1933	Italicene epoxide <iso->	29.40	1514
Isolcedene	23.48	1374	Italicene ether	30.30	1536
Isolimonene <trans->	07.22	0980	Italicene ether <10-epi->	29.45	1515
Isolongifolan-7α-ol	33.59	1618	Jasmolactone <(E)->	28.45	1491
Isolongifolanone <cis->	33.37	1612	Jasmolactone <(Z)->	28.31	1487
Isolongifolanone <trans->	33.88	1625	Jasmolactone, extra C <(E)->	32.02	1578
Isomenthone <2-(3-oxobutyl)->	33.93	1627	Jasmolactone, extra C <(Z)->	31.51	1566
Isomenthone <2-ethyl->	19.92	1293	Jasmone <(E)->	24.19	1390
Isomyristicin	33.52	1616	Jasmone <(Z)->	24.26	1392
Isopentyl 2-methyl butanoate	11.49	1100	Jasmone <dihydro->	23.67	1378
Isopentyl acetate	04.40	0869	Jasmone <iso->	24.12	1388
Isopentyl alcohol	02.53	0731	Jasmone lactone <(3E)->	28.14	1483
Isopentyl butanoate	09.72	1052	Jasmone lactone <(3Z)->	27.56	1470
Isopentyl formate	03.06	0788	Jasmonol <cis,(E)->	21.43	1328
Isopentyl isovalerate	11.60	1102	Jasmonol <trans,(E)->	21.18	1322
Isopentyl salicylate	30.25	1535	Jasmonyl acetate <(E)->	24.55	1398
Isophorone	12.27	1118	Jasmonyl acetate <(Z)->	26.84	1452

Common Name	RT	AI	Common Name	RT	AI
Jensenone	46.30	1969	Linalool <dihydro->	12.82	1131
Junenol	33.61	1618	Linalool <tetrahydro->	11.43	1098
Junicedranol	36.44	1692	Linalool acetate	18.16	1254
Junicedranone	35.38	1664	Linalool acetate <dihydro->	18.99	1272
Juvibione	47.90	2018	Linalool acetate <tetrahydro->	17.15	1231
Juvibione <dehydro->	50.00	2085	Linalool butanoate	25.53	1421
Karahanaenone	13.82	1154	Linalool formate	16.42	1214
Kaur-15-ene	47.25	1997	Linalool isobutanoate	23.43	1373
Kaurene	48.66	2042	Linalool isovalerate	27.43	1466
Kessane	30.02	1529	Linalool oxide <cis-> (furanoid)	10.29	1067
Khusilal	34.71	1647	Linalool oxide <cis-> (pyranoid)	14.52	1170
Khusilol	35.80	1675	Linalool oxide <dehydroxy cis->	08.01	1006
Khusimene	26.85	1453	Linalool oxide <dehydroxy trans->	07.52	0991
Khusimol	38.26	1741	Linalool oxide <trans-> (furanoid)	10.89	1084
Khusimone	33.05	1604	Linalool oxide <trans-> (pyranoid)	14.64	1173
Khusinol	35.95	1679	Linalool oxide acetate <trans-> (pyranoid)	19.64	1287
Khusinol acetate	41.21	1823	Linalool propanoate	21.73	1334
Kutidiol	44.33	1912	Linalool <1,2-dihydro-8-hydroxy-(2E)->	34.97	1654
Labd-13E-8,15-diol	59.92	2422	Linoleic acid	51.47	2132
Labd-7,13-dien-15-ol	56.24	2291	Lippifol-1(6)-en-5-one	30.89	1550
Labd-7,13-dien-15-ol, acetate	59.12	2392	Longiborneol (=Juniperol)	32.85	1599
Laciniata furanone E	30.47	1540	Longiborneol acetate (=Juniperol acetate)	36.16	1684
Laciniata furanone F	30.09	1531	Longicamphenylone	31.35	1562
Laciniata furanone G	29.96	1528	Longicyclene	23.37	1371
Laciniata furanone H	30.80	1548	Longifolene	24.92	1407
Lanceol <(Z)->	38.94	1760	Longifolene <iso->	24.14	1389
Lanceol acetate <(Z)->	42.32	1854	Longifolol	37.25	1713
Larixol	55.47	2265	Longifolol <iso->	37.80	1728
Laurenan-2-one	50.96	2115	Longifolol acetate <iso->	41.09	1819
Laurenene	43.20	1879	Longipinanol	31.58	1567
Laurenene <epi->	43.97	1901	Longipinanol <epi->	31.35	1562
Lavandulol	14.30	1165	Longipinene <α->	22.41	1350
Lavandulol <tetrahydro->	13.95	1157	Longipinene <β->	24.64	1400
Lavandulol acetate <tetrahydro->	18.79	1268	Lyril	35.41	1665
Lavandulyl 2-methyl butanoate	29.27	1511	Maaliol	31.53	1566
Lavandulyl acetate	19.70	1288	Macrocarpene <(E)-γ->	29.92	1527
Lavandulyl acetate <hydroxydihydro->	26.15	1436	Macrocarpene <(Z)-γ->	29.31	1512
Lavandulyl isobutanoate	25.51	1421	Macrocarpene <α->	27.59	1470
Lavandulyl isovalerate	29.19	1509	Macrocarpene <ar->	29.88	1526
Lavender lactone	09.04	1034	Macrocarpene <β->	28.81	1499
Leaf alcohol, ethyl acetal	11.77	1106	Maltol	11.77	1106
Ledol	32.99	1602	Maltol propionate	26.99	1456
Leptospermone	34.02	1629	Maltyl isobutyrate	28.58	1494
Leptospermone <iso->	33.72	1621	Manool	49.11	2056
Libocedrol	57.76	2344	Manool <13-epi->	49.20	2059
Liguloxide	30.24	1534	Manool <3α-acetoxy->	58.18	2359
Ligustilide <(E)->	40.28	1796	Manool <3α-hydroxy->	56.41	2297
Ligustilide <(Z)->	38.02	1734	Manool <7α-hydroxy->	54.63	2237
Lilial	29.93	1527	Manool oxide	46.89	1987
Limonen-10-ol	19.67	1288	Manool oxide <13-epi->	47.64	2009
Limonene	08.69	1024	Manool oxide <2-keto->	54.02	2216
Limonene aldehyde	21.37	1326	Manool oxide <3α-14,15-dihydro->	57.55	2337
Limonene oxide <cis-> (Me vs. IPP)	12.88	1132	Maple furanone	15.02	1182
Limonene oxide <trans-> (Me vs. IPP)	13.10	1137	Massoia dodecylactone	36.20	1685
Linalool	11.32	1095	Massoia lactone	27.60	1471
Linalool <(Z)-8-hydroxy->	33.65	1619	Mayurone	37.09	1709
Linalool <dehydro->	11.05	1088	Mayurone <cis-dihydro->	32.70	1595

Common Name	RT	AI	Common Name	RT	AI
Meftanal	25.60	1423	Methyl anthranilate <methyl-n->	24.86	1405
Melaleucol	36.98	1706	Methyl benzoate	11.07	1088
Menth-1-en-7-al <3-oxo-p->	21.56	1330	Methyl benzyl butyrate <α->	23.00	1363
Menth-1-en-7-al <p->	19.00	1273	Methyl benzyl propanoate <α->	19.31	1280
Menth-1-en-9-ol <p->	19.96	1294	Methyl biphenyl <4->	28.35	1488
Menth-1-en-9-ol acetate <p->	25.53	1421	Methyl butanoate	02.43	0721
Menth-2-en-1-ol <cis-p->	12.29	1118	Methyl butanoate, 3-methyl-3-butenyl <3->	12.03	1112
Menth-2-en-1-ol <trans-p->	13.04	1136	Methyl butyl acetate <2->	04.50	0875
Menth-3-en-8-ol <p->	13.45	1145	Methyl butyl benzoate <2->	26.24	1438
Menth-6-en-2,8-diol <trans-p->	23.37	1371	Methyl butyl isovalerate <2->	11.65	1103
Mentha-1(7),8-dien-2-ol <cis-p->	17.00	1227	Methyl butyl-2-methyl butyrate <2->	11.50	1100
Mentha-1(7),8-dien-2-ol <trans-p->	15.24	1187	Methyl chavicol	15.57	1195
Mentha-1(7),8-diene <meta->	07.79	1000	Methyl cinnamate <(E)->	23.58	1376
Mentha-1(7),8-diene <p->	07.89	1003	Methyl cinnamate <(Z)->	20.18	1299
Mentha-1,4-dien-7-ol <p->	21.30	1325	Methyl citronellate	18.33	1257
Mentha-1,5-dien-8-ol <p->	14.32	1166	Methyl communatate <(E)->	55.22	2257
Mentha-2,4(8)-diene <p->	10.94	1085	Methyl communatate <(Z)->	54.47	2231
Mentha-2,8-dien-1-ol <cis-p->	12.93	1133	Methyl cyclohexene	02.61	0740
Mentha-2,8-dien-1-ol <trans-p->	12.33	1119	Methyl cyclohexylcarboxylate	09.84	1055
Mentha-2,8-diene <cis-meta->	07.31	0983	Methyl daniellate	57.39	2331
Mentha-2,8-diene <trans-meta->	07.18	0979	Methyl decanoate	21.23	1323
Mentha-3,8-diene <p->	10.30	1068	Methyl decyl ketone (=2-dodecanone)	24.09	1388
Mentha-8-thiol-3-one <cis-p->	22.74	1357	Methyl dehydroabietate	57.65	2341
Mentha-8-thiol-3-one <trans-p->	23.36	1371	Methyl dihydrojasmonate <trans->	36.05	1682
Menthan-2-one <cis-p->	15.55	1194	Methyl dihydrojasmonate <cis->	34.99	1654
Menthan-2-one <trans-p->	15.75	1199	Methyl dodecanoate	29.82	1524
Menthane <trans-p->	07.03	0973	Methyl eperuate	54.15	2220
Menthatriene <1,3,8-p->	11.86	1108	Methyl epi-jasmonate <(Z)->	35.91	1678
Menthene <1-p->	08.58	1021	Methyl eudesmate	37.40	1718
Menthene <3-p->	07.32	0984	Methyl eugenol	24.75	1403
Mentho thiophene	21.96	1340	Methyl farnesoate <(2E,6E)->	39.79	1783
Menthofuran	14.05	1159	Methyl geranate	21.19	1322
Menthol	14.39	1167	Methyl heptanoate	08.57	1021
Menthol <8-hydroxy-neo->	21.44	1328	Methyl heptene carbonate	15.60	1196
Menthol <iso->	14.91	1179	Methyl hexadecanoate	44.64	1921
Menthol <neo->	14.13	1161	Methyl hexanoate	05.54	0921
Menthol <neo-iso->	15.11	1184	Methyl isoborneol <2->	14.85	1178
Mentholactone <cis->	23.05	1364	Methyl isoeugenol <(E)->	28.47	1491
Mentholactone <trans->	23.35	1371	Methyl isoeugenol <(Z)->	26.78	1451
Menthone	13.55	1148	Methyl isopimarate	56.42	2297
Menthone <iso->	13.99	1158	Methyl jasmonate <(Z)->	34.74	1648
Menthyl acetate	19.93	1294	Methyl labdanolate	58.80	2381
Menthyl acetate <iso->	20.39	1304	Methyl levopimarate	56.66	2306
Menthyl acetate <neo->	18.92	1271	Methyl linoleate	50.33	2095
Menthyl isovalerate	29.50	1516	Methyl myrtenate	19.92	1293
Menthyl lactate	28.05	1481	Methyl neoabietate	60.48	2443
Menthyl lactate <iso->	28.49	1492	Methyl nerolate	19.34	1280
Menthyl lactate <neo->	27.44	1467	Methyl nidoresedate	58.96	2387
Mercaptopropanoic acid <2->	06.35	0950	Methyl nonanoate	16.83	1223
Mesitylene	07.61	0994	Methyl octadecanoate	51.23	2124
Methoxy cinnamaldehyde <(E)-o->	29.93	1527	Methyl octanoate	12.50	1123
Methoxy cinnamic acid <(4E)->	36.77	1700	Methyl octene carbonate	19.98	1295
Methoxy-3-(1-methylpropyl)pyrazine <2->	14.42	1168	Methyl o-anisate	21.72	1334
Methyl 2-furoate	06.90	0969	Methyl p-tert-butylphenyl acetate	28.70	1497
Methyl 2-octenoate <(E)->	14.22	1163	Methyl p-anisate	23.33	1371
Methyl abietate	58.91	2385	Methyl pent-2-enolide <4-> (impure)	06.21	0945
Methyl α-cyclogeraniate	15.66	1197	Methyl pentanoate	03.55	0821

Common Name	RT	AI	Common Name	RT	AI
Methyl pentanoate <2-hydroxy-3-methyl->	07.48	0989	Myroxide <(Z)->	12.82	1131
Methyl pentanoate <2-hydroxy-4-methyl->	07.31	0983	Myrtanol <cis->	18.00	1250
Methyl pentanoate <2-methyl->	04.42	0871	Myrtanol <trans->	18.34	1258
Methyl pentyl angelate <3->	17.96	1249	Myrtanol acetate <trans->	23.97	1385
Methyl perillate	24.30	1392	Myrtenal	15.56	1195
Methyl pimarate	54.65	2237	Myrtenol	15.55	1194
Methyl propanoate	01.93	0634	Myrtenyl acetate	21.29	1324
Methyl salicylate	15.35	1190	Naphthalene	14.84	1178
Methyl sandaracopimarate	55.19	2256	Naphthalene <1-methoxy->	26.47	1444
Methyl strictate	58.96	2387	Naphthalene <2-methoxy->	26.53	1445
Methyl tetradecanoate	37.57	1722	Naphthalene <cis-decahydro->	11.46	1099
Methyl thujate	21.02	1318	Naphthalene <trans-decahydro->	09.77	1053
Methyl tiglate	04.28	0863	Naphthalene <2-acetyl->	33.22	1608
Methyl undecanoate	25.66	1424	Neerodol <cis- α ->	14.48	1169
Methyl vanillin	27.78	1475	Neerodol <trans- α ->	13.37	1144
Methyl-(2E)-nonenoate	16.73	1221	Neerodol acetate <cis- α ->	20.18	1299
Methyl-(3E)-hexen-2-one <5->	04.80	0892	Neerodol acetate <trans- α ->	19.42	1282
Methyl-(3E)-hexenoate	05.72	0927	Neocallitropsene < α ->	27.75	1474
Methyl-(3Z)-hexen-2-one <5>	04.40	0869	Neocnidilide	37.55	1722
Methyl-1-butanol <2->	02.46	0724	Nepetalactone <4 α ,7 α ,7 α ->	22.73	1357
Methyl 1,4-cyclohexadiene	03.25	0804	Nepetalactone <4 α ,7 α ,7 α ->	24.00	1386
Methyl-2-butanol <3->	02.10	0671	Nepetalactone <4 α ,7 β ,7 α ->	24.24	1391
Methyl-2-butenal <3->	02.97	0778	Neral	17.32	1235
Methyl-2-cyclohexen-1-one<3->	09.50	1046	Nerol	16.97	1227
Methyl-2-pentanone <4->	02.50	0728	Nerol oxide	13.80	1154
Methyl-3(2-furyl)acrolein <(2E)->	15.07	1183	Nerolidol <(E)->	31.32	1561
Methyl-3(2-furyl)acrolein <(2Z)->	14.43	1168	Nerolidol <(Z)->	30.09	1531
Methyl-7,13,15-abietatrienoate	62.05	2501	Nerolidyl acetate <(E)->	37.35	1716
Methoxythiophenol <2->	16.23	1210	Nerolidyl acetate <(Z)->	35.85	1676
Mint sulfide	38.21	1740	Nerolidyl isobutyrate <(E)->	41.30	1825
Modhephen-2-ene	23.83	1382	Nerolidyl isobutyrate <(Z)->	39.79	1783
Modhephen-8 β -ol	29.35	1513	Nerone <cis->	25.15	1412
Musk ambrette	44.92	1929	Nerone <trans->	26.25	1438
Musk ketone	46.80	1984	Neryl acetate	22.81	1359
Musk xylol	42.73	1866	Neryl acetone	26.06	1434
Mustakone	35.83	1676	Neryl formate	19.32	1280
Muurol-5-en-4 α -ol <cis->	31.24	1559	Neryl isobutanoate	28.43	1490
Muurol-5-en-4 β -ol <cis->	30.86	1550	Neryl isovalerate	32.18	1582
Muurol-5-en-4-one <cis-14-nor->	36.31	1688	Neryl propanoate	26.83	1452
Muurola-3,5-diene <cis->	26.64	1448	Nezukol	51.47	2132
Muurola-3,5-diene <trans->	26.78	1451	Nezukone	26.12	1435
Muurola-4(14),5-diene <cis->	27.35	1465	Nicotine	22.09	1342
Muurola-4(14),5-diene <trans->	28.53	1493	Nirarin	37.31	1715
Muurola-4,10(14)-dien-1 β -ol	34.06	1630	Nojigiku acetate	17.47	1238
Muurolene <14-hydroxy- α ->	39.64	1779	Nonacosane	71.78	2900
Muurolene <14-oxy- α ->	39.22	1767	Nonadecane <n->	43.92	1900
Muurolene < α ->	28.83	1500	Nonadienal <(2E,4E)->	16.24	1210
Muurolene < γ ->	27.91	1478	Nonadienal <(2E,6Z)->	13.64	1150
Muurolol < α -> (=Torreyol)	34.61	1644	Nonadienal <diethylacetal-(2E,6Z)->	23.73	1380
Muurolol <epi- α ->	34.46	1640	Nonadienol <(2E,4E)->	16.55	1217
Myrtal-4(12)-ene	26.53	1445	Nonadienol <(2E,6Z)->	14.04	1159
Myrac aldehyde	29.60	1519	Nonadienol <(3E,6Z)->	13.59	1149
Myrcene	07.43	0988	Nonadienol acetate <(2E,6Z)->	20.36	1303
Myrcenol	12.32	1119	Nonadienol acetate <(3E,6Z)->	20.05	1296
Myrcenone	13.43	1145	Nonalactone < δ ->	23.98	1385
Myristicin	29.54	1517	Nonalactone < γ ->	22.78	1358
Myroxide <(E)->	13.23	1140	Nonanal <n->	11.51	1100

Common Name	RT	AI	Common Name	RT	AI
Nonanal, dimethyl acetal	19.19	1277	Ocimenone <(Z)->	16.94	1226
Nonane <n->	04.93	0900	Octacosane	69.55	2800
Nonanoic acid	18.77	1267	Octadecane <n->	40.40	1800
Nonanol <2->	11.40	1097	Octadecanol <n->	49.76	2077
Nonanol <n->	14.29	1165	Octadecanol acetate	53.82	2209
Nonanone <2->	11.03	1087	Octadecene <1->	40.02	1789
Nonanyl acetate <n->	20.69	1311	Octadienal <(2E,4E)->	11.59	1102
Nonen-1-al <(2E)->	13.94	1157	Octadienal <2,2-dimethyl-3,4->	11.62	1103
Nonen-1-al <(2Z)->	13.40	1144	Octadienol <(2E,4E)->	12.07	1113
Nonen-1-ol <(3Z)->	13.74	1152	Octalactone <δ->	19.15	1276
Nonenal <(6Z)->	11.38	1097	Octalactone <γ->	18.02	1250
Nonenal <dimethyl acetal-(3Z)->	18.89	1270	Octanal <n->	07.72	0998
Nonenol <(2E)->	14.20	1163	Octane <1,1-dimethoxy->	14.72	1175
Nonenol <(2Z)->	14.15	1162	Octane <n->	03.17	0800
Nonenol <(6Z)->	14.26	1164	Octanedioic acid, diethyl ester	32.25	1584
Nonenol acetate <(2E)->	20.49	1306	Octanediol <2,4->	21.92	1339
Nonyne <1,1 dimethoxy 2->	21.16	1321	Octanoic acid (=caprylic acid)	14.37	1167
Nootkatene	29.53	1517	Octanol <2->	07.60	0994
Nootkatin	45.95	1959	Octanol <3->	07.44	0988
Nootkatinol	50.10	2088	Octanol <n->	10.11	1063
Nootkatol	37.28	1714	Octanol acetate	16.30	1211
Nootkatol <epi->	36.72	1699	Octanol acetate <3->	12.35	1120
Nootkatone	40.62	1806	Octanone <2->	07.45	0988
Nopinone	13.02	1135	Octanone <3->	07.19	0979
Nopol	19.23	1278	Octanone <5-hydroxy-4->	10.23	1066
Nopsan-4-ol	30.03	1529	Octen-1-al <(2E)->	09.59	1049
Nopyl acetate	25.65	1424	Octen-1-ol <(2E)->	10.03	1060
Norbornen-2-ol <endo-5->	05.85	0932	Octen-1-ol <(3Z)->	09.52	1047
Norbornen-2-ol <exo-5->	06.05	0939	Octen-2-ol <(3E)->	07.28	0982
Norbornen-2-ol acetate <endo-5->	11.22	1092	Octen-2-ol <(3Z)->	07.00	0972
Norbornen-2-ol acetate <exo-5->	11.05	1088	Octen-2-one <(3E)->	08.90	1030
Norbornene	02.50	0728	Octen-3-ol <1->	07.04	0974
Norbornene <5-methylene-2->	03.30	0807	Octen-3-ol butanoate <1->	19.32	1280
Norbornene-2-methanol <endo-5->	10.30	1068	Octen-3-one <1->	06.98	0972
Norbornene-2-methanol <exo-5->	09.95	1058	Octen-3-yl acetate <1->	11.95	1110
Norbornene-2-methanol acetate <endo-5->	16.12	1207	Octen-5-yne <(2E)-methyl-3->	06.59	0958
Norbornene-2-methanol acetate <exo-5->	15.90	1202	Octene <(2E)->	03.45	0815
Norborneol <endo-2->	07.26	0982	Octene <(2Z)->	03.32	0808
Norborneol <exo-2->	06.93	0970	Octene <(4E)->	03.20	0801
Norborneol acetate <endo-2->	12.55	1124	Octene <1->	03.06	0788
Norborneol acetate <exo-2->	12.59	1125	Octenol <(5Z)->	10.20	1065
Norpatchoulanol	31.00	1553	Octenol acetate <(2E)->	16.14	1208
Nuciferal <(E)->	37.75	1727	Octenol acetate <(2Z)->	15.67	1197
Nuciferal <(Z)->	37.25	1713	Octenol butanoate <(2E)->	24.03	1386
Nuciferal <(E)->	38.75	1754	Octenol propanoate <(5Z)->	20.13	1298
Nuciferal <(Z)->	37.63	1724	Octenyl cyclopentanone <(E)->	29.97	1528
Nuciferal acetate <(Z)->	41.47	1830	Octyl formate	12.64	1127
Occidenol	35.85	1676	Oleic acid	51.75	2141
Occidentalol	30.88	1550	Oplopanone	38.17	1739
Occidentalol acetate	36.02	1681	Oplopanonyl acetate	43.47	1887
Occidol	41.68	1836	Oplopanone <β->	33.17	1607
Occidol acetate	46.51	1975	Orcinol	23.23	1368
Ocimene <(E)-β->	09.42	1044	Oroselone	52.08	2152
Ocimene <(Z)-β->	08.96	1032	Osthole	51.72	2140
Ocimene <allo->	12.70	1128	Oxazole <2-ethyl-4,5-dimethyl->	05.80	0930
Ocimene <neo-allo->	13.20	1140	Oxofuranoeremophilane <1,10β-epoxy-6->	42.10	1848
Ocimenone <(E)->	17.32	1235	Palustrol	31.56	1567

Common Name	RT	AI	Common Name	RT	AI
Panasinsene <β>	23.78	1381	Phenyl ethyl alcohol	11.75	1106
Papuanone	39.94	1787	Phenyl ethyl anthranilate <2>	51.28	2126
Patchenol <(E)>	21.45	1328	Phenyl ethyl butanoate <2>	26.27	1439
Patchenol <(Z)>	20.94	1316	Phenyl ethyl formate <2>	14.60	1172
Patchoulene <α>	26.92	1454	Phenyl ethyl hexanoate	34.46	1640
Patchoulene <β>	23.70	1379	Phenyl ethyl isobutanoate	24.31	1393
Patchoulene <γ>	28.91	1502	Phenyl ethyl octanoate	42.03	1846
Patchouli alcohol	35.08	1656	Phenyl ethyl oxyacetaldehyde	21.28	1324
Pearlate (=3-octenol, propanoate)	19.64	1287	Phenyl ethyl phenyl acetate <2>	44.38	1913
Pentacosane <n>	62.00	2500	Phenyl ethyl propanoate <2>	22.47	1351
Pentadecane <n>	28.82	1500	Phenyl ethyl tiglate <2>	32.25	1584
Pentadecanol <n>	39.42	1773	Phenyl heptan-3-one <1>	29.83	1524
Pentadecanone <2>	36.64	1697	Phenyl hexan-3-one <1>	25.58	1423
Pentadecen-2-one <(6Z)>	35.49	1667	Phenyl pentan-3-one <1>	21.80	1336
Pentanal	02.27	0704	Phenyl propanal <2>	11.58	1102
Pentanal <5-hydroxy>	04.70	0886	Phenyl propyl butanoate <2>	28.12	1483
Pentandione <2,3>	02.23	0700	Phenyl propyl isobutanoate <2>	26.24	1438
Pentanoic acid <2-methyl>	05.71	0927	Phenyl-4-methyl-pentan-3-one <1>	23.77	1380
Pentanoic acid <4-methyl>	05.89	0933	Phenyl tert butanol	13.79	1153
Pentanol	02.82	0762	Phloroacetophenone <2,4-dimethylether>	35.47	1667
Pentanol <2>	02.18	0689	Phthalide <3-butylhexahydro>	34.15	1632
Pentanol <3-methyl>	03.76	0833	Phyllocladanol	53.83	2209
Pentanol <4-methyl>	03.70	0830	Phyllocladene	47.86	2016
Pentanol <4-methyl-2>	02.66	0745	Phytol	45.37	1942
Pentanone <2>	02.15	0682	Phytol acetate <(E)>	54.07	2218
Pentanone <4-hydroxy-4-methyl-2>	03.72	0831	Pimaradiene	45.59	1948
Penten-1-al <2E>	02.65	0744	Pinane <cis>	07.27	0982
Penten-3-ol <1>	02.16	0684	Pinane <trans>	06.91	0969
Pentenoic acid <2-methyl-4>	05.59	0923	Pinanediol <cis-2,3>	21.01	1318
Pentenoic acid <4>	04.20	0858	Pinchotene acetate	27.50	1468
Pentenol <(2Z)>	02.85	0765	Pinene <α>	05.85	0932
Pentyl benzoate	27.84	1476	Pinene <β>	07.04	0974
Pentyl butanoate	11.08	1089	Pinene hydrate <cis>	13.18	1139
Pentyl cyclohexa-1,3-diene	13.91	1156	Pinene hydrate <trans>	12.33	1119
Pentyl furan <2>	07.34	0984	Pinene oxide <α>	11.45	1099
Pentyl isobutanoate	09.62	1049	Pinene oxide <β>	13.83	1154
Pentyl propanoate	07.99	1005	Pinocampheol	14.32	1166
Pentyl salicylate	31.85	1574	Pinocampheol <iso>	14.78	1176
Perilla alcohol	19.94	1294	Pinocamphone <cis> (=cis-3-pinanone)	14.57	1172
Perilla aldehyde	18.83	1269	Pinocamphone <trans-2-hydroxy>	17.85	1247
Perilla ketone	17.77	1245	Pinocamphone <trans>		
Perillene	11.50	1102	(=trans-3-pinanone)	14.00	1158
Peuceetin, 7-methyl ether	58.21	2360	Pinocarveol <cis>	15.00	1182
Phellandrene <α>	07.85	1002	Pinocarveol <trans>	12.99	1135
Phellandrene <β>	08.70	1025	Pinocarvone	14.07	1160
Phenethyl 2-furoate	37.28	1714	Pinocarvyl acetate <cis>	20.68	1311
Phenethyl cinnamate	52.90	2179	Pinocarvyl acetate <trans>	20.11	1298
Phenol <2-(1E)-propenyl>	18.62	1264	Pinonic acid	26.32	1440
Phenol <2-allyl>	15.33	1189	Piperitenone	21.98	1340
Phenol <2,6-dimethoxy>	22.24	1346	Piperitenone oxide	23.12	1366
Phenol acetate <2,6-dimethoxy>	26.32	1440	Piperitol <cis>	15.59	1195
Phenol, 2-(1Z)-propenyl	13.47	1146	Piperitol <trans>	16.10	1207
Phenyl ethane <1-nitro-2>	19.94	1294	Piperitol acetate <cis>	21.63	1332
Phenyl ethyl 2-methylbutanoate	28.25	1486	Piperitol acetate <trans>	22.10	1343
Phenyl ethyl 3-methylbutanoate	28.43	1490	Piperitone	17.95	1249
Phenyl ethyl acetate <1>	15.45	1192	Piperitone epoxide <cis>		
Phenyl ethyl acetate <2>	18.20	1254	(epoxide vs. IPP)	18.00	1250

Common Name	RT	AI
Piperitone epoxide <trans->	18.10	1252
Piperonal	21.51	1329
Piperonyl acetate	28.95	1503
Pipitzol <α-methyl, α->	41.82	1840
Pipitzol <α-methyl, β->	42.30	1853
Platyphyllol	33.19	1607
Pogostol	34.89	1651
Polygodial	47.85	2016
Pregeijerene	19.57	1285
Pregeijerene B	19.05	1274
Premnaspirodiene	29.05	1505
Prenopsan-8-ol	31.91	1575
Prenyl angelate	15.30	1189
Prenyl benzoate	28.19	1485
Prenyl cyclopentanone <2->	16.86	1224
Prenyl formate	03.62	0825
Prenyl hexanoate	19.84	1292
Prenyl isobutyrate	09.57	1048
Prenyl limonene <cis->	26.44	1443
Prenyl limonene <trans->	27.04	1457
Presilphiperfol-7-ene	21.70	1334
Presilphiperfolan-8-ol	32.30	1585
Prezizaene	26.48	1444
Procerin	44.98	1931
Propanal, 3-methylthio-	04.97	0901
Propanol, 3-methylthio-	06.90	0969
Propyl butanoate	04.91	0898
Propyl chromone <2->	36.98	1706
Propyl tiglate	08.99	1032
Pseudo phytol <(6E,10E)->	49.16	2058
Pseudo phytol <(6E,10Z)->	47.91	2018
Pseudo phytol <(6Z,10E)->	48.29	2030
Pseudo phytol <(6Z,10Z)->	46.93	1988
Pseudoisoeugenyl 2-methylbutyrate <(E)->	41.85	1841
Pseudoisoeugenyl isobutyrate <(E)->	38.24	1740
Pseudowiddrene	28.75	1498
Pulegol <cis->	16.95	1226
Pulegol <trans->	16.35	1213
Pulegone	17.27	1233
Pygmaein	32.14	1581
Pyran-2-one <6-nonyl-5,6-dihydro-2H->	27.89	1477
Pyran-5-one <2,2-dimethyl-7-isobutyl-2H,5H-pyrano[4,3-b]->	40.74	1809
Pyran-5-one <2,2-dimethyl-7-sec-butyl-2H,5H-pyrano[4,3-b]->	40.49	1802
Pyrazine <2-acetyl->	08.41	1017
Pyrazine <2-acetyl-3-ethyl->	13.89	1156
Pyrazine <2-acetyl-3-methyl->	10.71	1079
Pyrazine <2-ethyl->	05.29	0912
Pyrazine <2-ethyl-3-methyl->	07.85	1002
Pyrazine <2-methoxy->	04.86	0896
Pyrazine <2-methoxy-3-(2-methylpropyl)->	14.91	1179
Pyrazine <2-methoxy-3-methyl->	06.85	0967
Pyrazine <2,3-diethyl->	10.79	1081
Pyrazine <2,3-dimethyl->	05.38	0915
Pyrazine <2,3,5-trimethyl->	07.77	1000

Common Name	RT	AI
Pyrazine <2,5-dimethyl->	05.18	0908
Pyrazine <2,6-dimethyl->	05.21	0909
Pyrazine <3-methyl-2-isobutyl->	12.90	1133
Pyrazine <methyl->	03.52	0819
Pyrazine <methylthio->	11.23	1093
Pyrazine <tetramethyl->	10.86	1083
Pyruvic acid	02.15	0682
Quinoline <6-isopropyl->	29.23	1510
Raspberry ketone	30.67	1545
Raspberry ketone, methyl ether	28.55	1493
Resveratrol	67.83	2729
Retene	53.96	2214
Rimuene	43.79	1896
Rimuene <tetrahydro->	45.99	1960
Rosa-5,15-diene <ent->	45.06	1933
Rose oxide <cis->	11.77	1106
Rose oxide <trans->	12.45	1122
Rose oxide <trans-dihydro->	10.31	1068
Rose oxide <cis-dihydro->	09.17	1037
Rosefuran epoxide	14.65	1173
Rosifolliol	32.89	1600
Rotundene	27.05	1457
Sabina ketone	13.83	1154
Sabina ketone <dehydro->	12.25	1117
Sabinene	06.91	0969
Sabinene hydrate <cis-> (IPP vs. OH)	10.20	1065
Sabinene hydrate <trans-> (IPP vs. OH)	11.41	1098
Sabinene hydrate acetate <cis-> (cis for Ac vs. IPP)	16.62	1219
Sabinene hydrate acetate <trans-> (Ac vs. IPP)	18.12	1253
Sabinol <trans-> (trans for OH vs. IPP)	13.10	1137
Sabinyl acetate <trans-> (IPP vs. Acetyl)	19.73	1289
Safranal	15.64	1196
Safrole	19.56	1285
Salicylaldehyde	09.23	1039
Salicylate, 2-ethylhexyl-	40.65	1807
Salicylic acid, butyl ester	27.54	1469
Salicylic acid, hexyl ester	35.75	1674
Salvene <(E)->	04.20	0858
Salvene <(Z)->	04.01	0847
Salvial-4(14)-en-1-one	32.66	1594
Sandalore	28.72	1497
Sandaracopimara-8(14),15-diene	46.26	1968
Sandaracopimarinal	53.06	2184
Sandaracopimarinal	55.58	2269
Santalene <α->	25.31	1416
Santalene <β->	27.05	1457
Santalene <epi-β->	26.51	1445
Santaleneone	31.92	1576
Santalol <(E)-β->	38.15	1738
Santalol <(Z)-β->	37.31	1715
Santalol <(Z)-epi-β->	36.84	1702
Santalol <(Z),α->	35.74	1674
Santalol acetate <(E)-β->	42.79	1867
Santalol acetate <(Z)-α->	39.59	1777
Santalol acetate <(Z)-β->	41.05	1818

Common Name	RT	AI	Common Name	RT	AI
Santalol acetate <(Z)-epi-β>	40.60	1805	Silphiperfolan-6β-ol <7-epi>	29.57	1518
Santalone	14.82	1177	Silphiperfolan-7β-ol	29.62	1519
Santene	04.66	0884	Sinensal <α>	38.78	1755
Santolina alcohol	09.06	1034	Sinensal <β>	36.73	1699
Santolina triene	05.12	0906	Skatole	23.81	1381
Santolinyl acetate	14.54	1171	Spathulenol	31.96	1577
Santonine <α>	53.65	2203	Spiroether <(E)>	43.59	1890
Sativene	24.21	1390	Spiroether <(Z)>	43.19	1879
Sclarene	46.45	1974	Spirolepechinene	26.69	1449
Sclareol	54.21	2222	Squamulosone	39.31	1770
Sclareolide	49.40	2065	Stemone	12.54	1124
Sedamenolide	37.45	1719	Stigmast-4-en-3-one	79.26	3237
Selin-11-en-4α-ol	35.14	1658	Stilbene <3,5-dimethoxy>	54.49	2232
Selina-1,3,7(11)-trien-8-one	34.15	1632	Stilbene <4-hydroxy>	48.65	2042
Selina-1,3,7(11)-trien-8-one epoxide	38.46	1746	Stilbene <4-methoxy>	47.06	1992
Selina-3,11-dien-6α-ol	34.54	1642	Styrene <2,3,4,6-tetramethoxy>	34.53	1642
Selina-3,7(11)-diene	30.66	1545	Styrene <2,4,6-trimethoxy>	33.42	1613
Selinene <7-epi-α>	29.67	1520	Sugiol	65.36	2629
Selinene <α>	28.74	1498	Sylvestrene	08.73	1025
Selinene <β>	28.37	1489	Sylvestrene <iso>	08.03	1007
Selinene <δ>	28.49	1492	Syringaldehyde	35.04	1655
Semperviol	55.98	2282	Tagetone <(E)>	13.19	1139
Sesamol	20.69	1311	Tagetone <(Z)>	13.54	1148
Seselin	47.27	1998	Tagetone <dihydro>	09.51	1046
Sesquiceneol-2-one	36.81	1701	Tasmanone	37.70	1726
Sesquiceneole	29.44	1515	Taxodione <6-deoxy>	60.28	2435
Sesquiceneole <12-hydroxy-(Z)>	39.16	1766	Ternine <(Z)>	41.97	1844
Sesquiceneole <7-epi-1,2-dehydro>	27.62	1471	Terpinen-4-ol	14.66	1174
Sesquiceneole <dehydro>	27.54	1469	Terpinen-4-ol acetate	20.17	1299
Sesquilavandulol <(E)>	34.10	1631	Terpinen-7-al <α>	19.46	1283
Sesquilavandulol <(Z)>	33.16	1607	Terpinen-7-al <γ>	19.76	1290
Sesquilavandulyl acetate <(E)>	38.19	1739	Terpinene <α>	08.30	1014
Sesquilavandulyl acetate <(Z)>	37.92	1732	Terpinene <γ>	09.78	1054
Sesquiphellandrene <β>	29.70	1521	Terpineol <1>	12.77	1130
Sesquisabinene	27.05	1457	Terpineol <α>	15.21	1186
Sesquisabinene hydrate <cis>	30.56	1542	Terpineol <cis-β>	13.20	1140
Sesquisabinene hydrate <trans>			Terpineol <cis-dihydro-α>	14.09	1160
(IPP vs. OH)	31.99	1577	Terpineol <cis-dihydro-β>	13.89	1156
Sesquithujene	24.84	1405	Terpineol <δ>	14.14	1162
Sesquithujene <7-epi>	24.19	1390	Terpineol <γ>	15.73	1199
Sesquithuriferol	33.08	1604	Terpineol <trans-β>	14.02	1159
Seychellene	26.50	1444	Terpineol <trans-dihydro-α>	13.33	1143
Shisofuran	15.69	1198	Terpineol <trans-dihydro-β>	12.97	1134
Shyobunol	36.31	1688	Terpinolene	10.98	1086
Sibirene	24.62	1400	Terpinyl acetate <α>	22.26	1346
Silphinene	22.18	1345	Terpinyl acetate <cis-dihydro-α>	20.91	1316
Silphiperfol-4,7(14)-diene	22.77	1358	Terpinyl acetate <δ>	20.90	1316
Silphiperfol-5-en-3-ol A	31.18	1557	Terpinyl acetate <trans-dihydro-α>	20.22	1300
Silphiperfol-5-en-3-ol B	30.23	1534	Terpinyl isobutanoate <α>	27.62	1471
Silphiperfol-5-en-3-one A	31.84	1574	Tetracosane <n>	59.33	2400
Silphiperfol-5-en-3-one B	30.86	1550	Tetradecanal	33.35	1611
Silphiperfol-5-ene	21.37	1326	Tetradecane <n>	24.61	1400
Silphiperfol-5-ene <7-epi>	22.20	1345	Tetradecanol <n>	35.64	1671
Silphiperfol-6-en-5-one	33.83	1624	Tetradecatriene <(3Z,6Z,9Z)>	19.68	1288
Silphiperfol-6-ene	23.61	1377	Tetradecene <1>	24.10	1388
Silphiperfolan-6α-ol	29.12	1507	Tetrahydro jasmone <cis>	18.84	1269
Silphiperfolan-6β-ol	30.70	1546	Tetrahydro jasmone <trans>	20.61	1309

Common Name	RT	AI
Tetrahydrofuran <2,5-diethenyl-2-methyl->	05.29	0912
Tetraatriacontane	82.80	3400
Thiazole ethanol acetate <4-methyl-5->	24.18	1390
Thiazole	02.54	0732
Thiazole <2-acetyl->	08.32	1014
Thiazole <2-ethoxy->	06.38	0951
Thiazole <2-isobutyl->	08.89	1030
Thiazole <2,4,5-trimethyl->	07.62	0994
Thiazole <4-methyl->	03.42	0814
Thiazole <4,5-dimethyl->	05.75	0928
Thiazole <5-acetyl-2,4-dimethyl->	17.23	1233
Thio rose oxide <cis->	19.05	1274
Thio rose oxide <trans->	19.95	1294
Thiophene <2-butyl->	09.89	1057
Thuj-3-en-10-al	14.99	1181
Thuja-2,4(10)-diene	06.44	0953
Thujanol <3->	14.26	1164
Thujanol <iso-3->	12.94	1134
Thujanol <neo-3->	13.60	1149
Thujanol <neoiso-3->	13.50	1147
Thujanol acetate <3->	19.98	1295
Thujanol acetate <iso-3->	18.75	1267
Thujanol acetate <neo-3->	19.04	1273
Thujanol acetate <neoiso-3->	19.38	1281
Thujaplicin <α->	25.06	1410
Thujaplicin <β->	27.79	1475
Thujaplicin <γ->	28.12	1483
Thujaplicinol <α->	29.20	1509
Thujaplicinol <β->	30.32	1536
Thujene <α->	05.62	0924
Thujic acid	23.75	1380
Thujone <cis->	11.56	1101
Thujone <trans->	12.00	1112
Thujopsadiene <cis->	27.38	1465
Thujopsan-2α-ol	32.34	1586
Thujopsan-2β-ol	32.44	1588
Thujopsanone <3->	34.95	1653
Thujopsanone <3-iso->	34.48	1641
Thujopsenal <cis->	37.06	1708
Thujopsene <cis->	25.86	1429
Thujopsenic acid <cis->	42.65	1863
Thymohydro quinone	30.99	1553
Thymol	19.71	1289
Thymol acetate	22.38	1349
Thymol, methyl ether	17.19	1232
Thymoquinone	17.93	1248
Tiglic acid	05.20	0909
Tiglic aldehyde	02.58	0737
Tolualdehyde <meta->	10.15	1064
Tolualdehyde <ortho->	10.09	1062
Tolualdehyde <para->	10.66	1077
Toluene <2,4,6-trimethoxy->	28.09	1482
Torquatone	40.94	1815
Torquatone <demethyl->	42.75	1866
Torulosol	58.21	2360
Totarene	44.68	1922

Common Name	RT	AI
Totarol <7α-hydroxy-trans->	60.55	2445
Totarol <cis->, methyl ether	53.78	2208
Totarol <trans->	56.88	2314
Totarol <trans->, methyl ether	54.63	2237
Totarol acetate <trans->	60.10	2428
Totarolone	63.10	2542
Triacetin	22.31	1347
Triacotane	74.16	3000
Tricosane <n->	56.48	2300
Tricyclene	05.53	0921
Tridecanal	29.22	1509
Tridecane <n->	20.19	1300
Tridecanol <n->	31.68	1570
Tridecanone <2->	28.64	1495
Tridecen-1-al <(2E)->	31.55	1567
Tridecene <1->	19.77	1290
Tridecenol <(2E)->	31.62	1568
Tridecenol acetate <(2E)->	36.85	1703
Trihydroxy benzaldehyde <2,4,6->	41.06	1818
Trimenal <(E)->	25.45	1419
Trimenal <(Z)->	24.51	1397
Trimethyl benzaldehyde <2,3,4->	20.79	1313
Trimethyl benzaldehyde <2,3,6->	22.51	1352
Trimethyl benzene <1,2,4->	08.57	1021
Tripropionin	33.00	1602
Tritriacontane	80.55	3300
Turnerol <ar->	32.17	1582
Turnerone <ar->	35.51	1668
Turnerone <ar-dihydro->	32.70	1595
Ugandensidial	53.50	2198
Umbellulone	14.38	1167
Undec-10-en-1-al	20.18	1299
Undec-9E-en-1-al	20.70	1311
Undec-9Z-en-1-al	21.17	1322
Undecadienal <(2E,4E)->	25.28	1415
Undecalactone <δ->	32.62	1593
Undecalactone <γ->	31.65	1569
Undecan-4-ol	19.60	1286
Undecanal	20.45	1305
Undecanal <2-methyl->	23.10	1365
Undecanal, dimethyl acetal	27.73	1474
Undecane <n->	11.48	1100
Undecanol <2->	20.26	1301
Undecanol <3->	19.92	1293
Undecanol <5->	19.52	1284
Undecanol <6->	19.51	1284
Undecanol <n->	23.19	1367
Undecanone <2->	19.90	1293
Undecenal <(2E)->	22.74	1357
Undecenal <(8Z)->	20.20	1300
Undecenol <(2E)->	23.08	1365
Undecenol <10->	22.90	1361
Undecenol acetate <(2E)->	29.00	1504
Undecenol acetate <10->	28.76	1498
Undecyne <1->	12.45	1122
Untriacontane	76.35	3100
Valencene	28.66	1496

Common Name	RT	AI
Valencene <11,12-dihydroxy->	44.40	1914
Valencene <13-hydroxy->	39.22	1767
Valeranone	35.74	1674
Valerianol	35.07	1656
Valeric acid <3-methyl->	06.05	0939
Valerolactone <γ->	06.10	0941
Vanillin	24.32	1393
Vanillin <ethyl->	26.83	1452
Vanillin <o->	20.29	1302
Vanillin acetate	29.85	1525
Vanillone, aceto-	28.05	1481
Vanillyl alcohol	26.51	1445
Veloutone	20.63	1309
Veltonal <(E)->	31.07	1555
Veltonal <(Z)->	30.40	1538
Veratrole	13.28	1141
Verbanol	15.66	1197
Verbanol <iso->	14.78	1176
Verbanol <neo->	15.01	1182
Verbanol <neoiso->	15.25	1187
Verbanol acetate	22.00	1340
Verbanol acetate <iso->	20.58	1308
Verbanol acetate <neo->	21.05	1319
Verbanol acetate <neoiso->	21.45	1328
Verbenene	06.67	961
Verbenol <cis->	13.07	1137
Verbenol <trans->	13.22	1140
Verbenone	15.97	1204
Verbenyl acetate <cis->	19.35	1280
Verbenyl acetate <trans->	19.83	1291

Common Name	RT	AI
Vertocitral C <cis->	10.61	1076
Vertocitral C <trans->	11.72	1105
Vestitenone	26.49	1444
Vetiselinenol	37.84	1730
Vetispirene <α->	28.38	1489
Vetispirene <β->	28.53	1493
Vetivenene <γ->	30.09	1531
Vetivenene <β->	31.02	1554
Vetivenic acid	40.80	1811
Vetivone <α->	41.89	1842
Vetivone <β->	41.20	1822
Viridene	14.21	1163
Viridiflorene	28.68	1496
Viridiflorol	32.58	1592
Vulgarone B	34.81	1649
Warburganal	48.08	2023
Widdra-2,4(14)-diene	28.03	1481
Widdrol	32.85	1599
Xanthorrhizol	38.64	1751
Xanthostemone	25.94	1431
Ylangene <α->	23.43	1373
Ylangene <β->	25.43	1419
Yomogi alcohol	07.75	0999
Zerumbone	37.94	1732
Zierone	31.86	1574
Zingiberene <α->	28.53	1493
Zizanal	36.63	1697
Zizanone <epi->	35.54	1668
Zonarene	29.97	1528

Appendix II

**COMPOUNDS LISTED IN ORDER OF THEIR
RETENTION TIME AND ARITHMETIC RETENTION INDEX ON DB-5**

RT	AI	Common Name
1.63	529	Ethyl ether
1.80	606	Ethyl acetate
1.88	623	Hexane <n->
1.93	634	Methyl propanoate
1.99	647	Dichloroethane <1,2->
2.00	650	Cyclobutanone
2.00	650	Isobutanol
2.02	654	Butanal, 2-methyl-
2.04	658	Isovaleraldehyde
2.10	671	Methyl-2-butanol <3->
2.14	680	Isobutyl formate
2.15	682	Pentanone <2->
2.15	682	Pyruvic acid
2.16	684	Penten-3-ol <1->
2.18	689	Pentanol <2->
2.23	700	Heptane
2.23	700	Pentandione <2,3->
2.25	702	Ethyl furan <2->
2.27	704	Pentanal
2.33	711	Ethoxy ethanol <2->
2.34	711	Ethyl propanoate
2.43	721	Methyl butanoate
2.45	723	Buten-1-ol <3-methyl-3->
2.46	724	Methyl-1-butanol <2->
2.50	728	Methyl-2-pentanone <4->
2.50	728	Norbornene
2.53	731	Isopentyl alcohol
2.54	732	Thiazole
2.58	737	Tiglic aldehyde
2.61	740	Methyl cyclohexene
2.65	744	Penten-1-ol <2E->
2.66	745	Pentanol <4-methyl-2->
2.81	760	Cyclohexadiene <2-methyl-1,3->
2.81	761	Isobutyl acetate
2.82	762	Pentanol
2.83	763	Butanoic acid
2.85	765	Buten-1-ol <3-methyl-2->
2.85	765	Pentenol <(2Z)->
2.88	769	Buten-2-ol acetate <2-methyl-3->
2.88	769	Hexen-3-ol <1->
2.90	771	Cyclohexadiene <1-methyl-1,3->
2.97	778	Methyl-2-butenal <3->
3.03	785	Butanediol <2,3->
3.03	785	Cyclohexene <3-methylene->
3.04	786	Cyclopentanol
3.05	787	Butanethiol <2-methyl->
3.06	788	Dimethyl-3-pentanone <2,4->
3.06	788	Isopentyl formate
3.06	788	Octene <1->
3.08	790	Isopropyl isobutyrate
3.10	792	Hexenal <(3E)->
3.14	796	Hexanol <2->
3.15	797	Hexenal <(3Z)->
3.17	800	Hexanedione <3,4->
3.17	800	Octane <n->
3.19	801	Hexanal
3.20	801	Octene <(4E)->

RT	AI	Common Name
3.22	802	Ethyl butanoate
3.25	804	Methyl-1,4-cyclohexadiene
3.30	807	Norbornene <5-methylene-2->
3.31	807	Butyl acetate
3.32	808	Octene <(2Z)->
3.42	814	Thiazole <4-methyl->
3.45	815	Octene <(2E)->
3.52	819	Pyrazine <methyl->
3.55	821	Methyl pentanoate
3.60	824	Cyclohexene <3,3,5-trimethyl->
3.62	825	Prenyl formate
3.66	827	Isovaleric acid
3.67	828	Furfural
3.70	830	Pentanol <4-methyl->
3.72	831	Pentanone <4-hydroxy-4-methyl-2->
3.74	832	Cyclohexene <3,5,5-trimethyl->
3.75	832	Butanoic acid <2-methyl->
3.76	833	Pentanol <3-methyl->
3.81	836	Isopropyl butanoate
3.96	844	Hexenol <(3E)->
3.99	846	Hexenal <(2E)->
4.01	847	Salvene <(Z)->
4.04	849	Ethyl isovalerate
4.06	850	Hexenol <(3Z)->
4.13	854	Hexenol <(2E)->
4.20	858	Pentenoic acid <4->
4.20	858	Salvene <(E)->
4.22	859	Hexenol <(2Z)->
4.28	863	Hexanol <n->
4.28	863	Methyl tiglate
4.40	869	Isopentyl acetate
4.40	869	Methyl-(3Z)-hexen-2-one <5->
4.42	871	Hexenol <(4Z)->
4.42	871	Methyl pentanoate <2-methyl->
4.50	875	Methyl butyl acetate <2->
4.59	880	Buten-1-ol acetate <3-methyl-3->
4.59	880	Isopropyl-2-methyl butyrate
4.60	881	Allyl butanoate
4.60	881	Butenoic acid, 3-methyl-2-
4.65	884	Ethyl pent-4-enoate
4.66	884	Santene
4.68	885	Heptanol <4->
4.70	886	Pentanal <5-hydroxy->
4.74	889	Heptanone <2->
4.80	892	Methyl-(3E)-hexen-2-one <5->
4.82	893	Heptenal <(4Z)->
4.84	894	Heptanol <2->
4.86	896	Pyrazine <2-methoxy->
4.91	898	Propyl butanoate
4.93	900	Nonane <n->
4.96	901	Ethyl pentanoate
4.97	901	Propanal, 3-methylthio-
4.98	901	Heptanal
5.03	903	Ethoxy ethyl acetate <2->
5.05	904	Hydroxybutanoic acid lactone <4->
5.12	906	Santolina triene
5.13	907	Butyl propanoate

RT	AI	Common Name	RT	AI	Common Name
5.14	907	Hexadienal <(2E,4E)->	6.35	950	Mercaptopropionic acid <2->
5.18	908	Isobutyl isobutyrate	6.38	951	Thiazole <2-ethoxy->
5.18	908	Pyrazine <2,5-dimethyl->	6.43	952	Benzaldehyde
5.19	909	Acetylfuran <2->	6.44	953	Thuja 2,4(10)-diene
5.20	909	Tiglic acid	6.49	954	Cyclohexyl formate
5.21	909	Pyrazine <2,6-dimethyl->	6.56	957	Furfural <5-methyl->
5.25	911	Amyl acetate	6.58	958	Heptan-2-ol <6-methyl->
5.29	912	Hexadienol <(2E,4E)->	6.58	958	Hepten-1-ol <(2E)->
5.29	912	Pyrazine <2-ethyl->	6.59	958	Octen-5-yne <(2E)-methyl-3->
5.29	912	Tetrahydrofuran <2,5-diethenyl-2-methyl->	6.63	959	Heptanol <n->
5.32	913	Anisole	6.63	959	Hepten-1-ol <(4Z)->
5.32	913	Hexenyl formate <(3Z)->	6.64	960	Isoamyl propionate
5.35	914	Buten-1-ol <3-methyl-2->, acetate	6.67	961	Verbenene
5.38	915	Pyrazine <2,3-dimethyl->	6.84	967	Hexanoic acid (=caproic acid)
5.46	918	Heptanone <2-methyl-4->	6.85	967	Pyrazine <2-methoxy-3-methyl->
5.46	918	Heptanone <3-methyl-4-> (impure)	6.90	969	Methyl 2-furoate
5.46	918	Hexenyl formate <(2E)->	6.90	969	Propanol, 3-methylthio-
5.46	918	Isocitronellene	6.91	969	Pinane <trans->
5.48	919	Acetonyl acetone	6.91	969	Sabinene
5.53	921	Ethyl 2-methyl-4-pentenoate	6.93	970	Isopropyl tiglate
5.53	921	Tricyclene	6.93	970	Norborneol <exo-2->
5.54	921	Methyl hexanoate	6.96	971	Artemisole
5.59	923	Pentenoic acid <2-methyl-4->	6.98	972	Octen-3-one <1->
5.61	923	Artemisia triene	7.00	972	Octen-2-ol <(3Z)->
5.62	924	Thujene < α ->	7.01	973	Hexanal, dimethyl acetal
5.63	924	Cumene	7.02	973	Dimethyl-4-heptanone<3,5->
5.66	925	Heptanone <4-methyl-3->	7.03	973	Menthane <trans-p->
5.71	927	Hepten-2-one <(3E)->	7.04	974	Octen-3-ol <1->
5.71	927	Pentanoic acid <2-methyl->	7.04	974	Pinene < β ->
5.72	927	Methyl-(3E)-hexenoate	7.18	979	Mentha-2,8-diene <trans-meta->
5.75	928	Thiazole <4,5-dimethyl->	7.19	979	Octanone <3->
5.78	929	Ethyl tiglate	7.22	980	Isolimonene <trans->
5.80	930	Citronellene <tetrahydro->	7.25	981	Hepten-2-one <6-methyl-5->
5.80	930	Oxazole <2-ethyl-4,5-dimethyl->	7.26	982	Norborneol <endo-2->
5.81	930	Ethyl 2-methyl pentanoate	7.27	982	Pinane <cis->
5.82	931	Allyl isovalerate	7.28	982	Octen-2-ol <(3E)->
5.83	931	Cyclopentene <3,5-dimethylene-1,4,4-trimethyl->	7.30	983	Hexenoic acid <(3E)->
5.85	932	Norbornen-2-ol <endo-5->	7.31	983	Mentha-2,8-diene <cis-meta->
5.85	932	Pinene < α ->	7.31	983	Methyl pentanoate <2-hydroxy-4-methyl->
5.89	933	Pentanoic acid <4-methyl->	7.32	984	Menthene <3-p->
5.95	935	Cyclohexanol <3-methyl->	7.34	984	Pentyl furan <2->
5.98	936	Heptanone <5-methyl-3->	7.39	986	Decene <1->
6.00	937	Fruitalcur (=ethyl 2-methyl-3-pentenoate)	7.42	987	Furfuryl acetate
6.05	939	Norbornen-2-ol <exo-5->	7.43	988	Myrcene
6.05	939	Valeric acid <3-methyl->	7.44	988	Octanol <3->
6.10	941	Acetoxyhexane <2->	7.45	988	Cineole <dehydro-1,8->
6.10	941	Valerolactone < γ ->	7.45	988	Octanone <2->
6.15	942	Citronellene < β ->	7.47	989	Hepten-2-ol <6-methyl-5->
6.21	945	Cyclohexanone <3-methyl->	7.48	989	Heptanol <2,6-dimethyl-2->
6.21	945	Methyl pent-2-enolide <1-> (impure)	7.48	989	Methyl pentanoate <2-hydroxy-3-methyl->
6.22	945	Fenchene < α ->	7.52	991	Linalool oxide <dehydroxy trans->
6.26	946	Camphene	7.58	993	Butyl butanoate
6.27	947	Heptenal <(2E)->	7.60	994	Octanol <2->
6.28	947	Heptenol <(3Z)->	7.61	994	Mesitylene
6.34	949	Ethyl 3-methyl pentanoate	7.62	994	Isobutyl-(2E)-butenoate
6.35	950	Glycerol	7.62	994	Thiazole <2,4,5-trimethyl->
			7.71	997	Ethyl hexanoate

RT	Al	Common Name
7.72	998	Octanal <n->
7.74	998	Furfuryl methyl sulfide
7.75	999	Yomogi alcohol
7.77	1000	Decane <n->
7.77	1000	Pyrazine <2,3,5-trimethyl->
7.79	1000	Mentha-1(7),8-diene <meta->
7.84	1001	Carene <δ-2->
7.84	1001	Hexenyl acetate <(3E)->
7.85	1002	Phellandrene <α->
7.85	1002	Pyrazine <2-ethyl-3-methyl->
7.89	1003	Mentha-1(7),8-diene <p->
7.91	1003	Ethyl-(3E)-hexenoate
7.93	1004	Hexenyl acetate <(3Z)->
7.96	1005	Cresol methyl ether <o->
7.99	1005	Heptadienal <(2E,4E)->
7.99	1005	Hexenoic acid <(2E)->
7.99	1005	Pentyl propanoate
8.01	1006	Linalool oxide <dehydroxy cis->
8.03	1007	Sylvestrene <iso->
8.05	1007	Hexyl acetate
8.05	1007	Isoamyl isobutyrate
8.10	1008	Carene <δ-3->
8.17	1010	Hexenyl acetate <(2E)->
8.18	1011	Dichlorobenzene <1,4->
8.22	1012	Cineole <1,4->
8.24	1012	Isopropyl-4-methyl thiazole <2->
8.27	1013	Heptadienol <(2E,4E)->
8.30	1014	Terpinene <α->
8.32	1014	Thiazole <2-acetyl->
8.34	1015	Anisole <p-methyl->
8.41	1017	Ethyl 2-methyl-2-pentenoate <(E)->
8.41	1017	Pyrazine <2-acetyl->
8.43	1017	Cyclopentanedione <3-methyl-1,2->
8.51	1019	Ethyl 2-methyl-2-pentenoate <(Z)->
8.53	1020	Cymene <p->
8.57	1021	Allyl tiglate
8.57	1021	Methyl heptanoate
8.57	1021	Trimethyl benzene <1,2,4->
8.58	1021	Menthene <1-p->
8.59	1022	Cymene <o->
8.69	1024	Limonene
8.70	1025	Phellandrene <β->
8.73	1025	Sylvestrene
8.76	1026	Cineole <1,8->
8.77	1026	Benzyl alcohol
8.80	1027	Hexanoic acid <2-methyl->
8.83	1028	Acetyl pyridine <2->
8.89	1030	Thiazole <2-isobutyl->
8.90	1030	Octen-2-one <(3E)->
8.95	1031	Furan <2-acetyl-5-methyl->
8.96	1032	Ocimenol <(Z)-β->
8.99	1032	Propyl tiglate
9.03	1033	Hexanoic acid <5-methyl->
9.04	1034	Lavender lactone
9.06	1034	Santolina alcohol
9.14	1036	Benzene acetaldehyde
9.17	1037	Rose oxide <cis-dihydro->

RT	Al	Common Name
9.19	1038	Heptyl acetate <2->
9.20	1038	Ethyl hex-(2E)-enoate
9.23	1039	Salicylaldehyde
9.33	1042	Hexalactone<γ->
9.42	1044	Ocimenol <(E)-β->
9.45	1045	Isobutyl angelate
9.50	1046	Methyl-2-cyclohexen-1-one
9.51	1046	Arbusculone <cis->
9.51	1046	Tagetone <dihydro->
9.52	1047	Octen-1-ol <(3Z)->
9.57	1048	Prenyl isobutyrate
9.59	1049	Octen-1-ol <(2E)->
9.62	1049	Pentyl isobutanoate
9.64	1050	Ethyl levulinate
9.65	1050	Cresol <o->
9.67	1051	Bergamot
9.72	1052	Isopentyl butanoate
9.77	1053	Naphthalene <trans-decahydro->
9.78	1054	Terpinene <γ->
9.79	1054	Acetylpyrrole <2->
9.84	1055	Methyl cyclohexylcarboxylate
9.88	1056	Artemisia ketone
9.89	1057	Thiophene <2-butyl->
9.92	1057	Benzene methanol <α-methyl->
9.95	1058	Norbornene-2-methanol <exo-5->
9.99	1059	Acetophenone
10.00	1060	Isobutyl acetoacetate
10.02	1060	Hexenyl oxy-acetaldehyde <(3Z)->
10.03	1060	Octen-1-ol <(2E)->
10.09	1062	Tolualdehyde <o->
10.11	1063	Hexadienol acetate <(2E,4E)->
10.11	1063	Octanol <n->
10.12	1063	Hexenyl oxy-acetaldehyde <(3E)->
10.15	1064	Tolualdehyde <meta->
10.20	1065	Octenol <(5Z)->
10.20	1065	Sabinene hydrate <cis-> (IPP vs. OH)
10.22	1066	Arbusculone <trans->
10.23	1066	Octanone <5-hydroxy-4->
10.29	1067	Linalool oxide <cis->(furanoid)
10.30	1068	Mentha-3,8-diene <p->
10.30	1068	Norbornene-2-methanol <endo-5->
10.31	1068	Rose oxide <trans-dihydro->
10.35	1069	Dihydro myrcenol
10.43	1071	Benzyl formate
10.43	1071	Cresol <p->
10.45	1072	Cresol <meta->
10.52	1074	Heptanal, dimethyl acetal
10.61	1076	Vertocitral C <cis->
10.66	1077	Tolualdehyde <p->
10.70	1078	Camphenilone
10.71	1079	Pyrazine <2-acetyl-3-methyl->
10.72	1079	Allyl hexanoate
10.76	1080	Artemisia alcohol
10.76	1080	Benzene <2-methoxyethyl->
10.78	1081	Acetyl-2,5-dimethyl furan <3->
10.79	1081	Pyrazine <2,3-diethyl->
10.80	1081	Hexenal <(2Z)->, diethyl acetal

RT	AI	Common Name	RT	AI	Common Name
10.82	1082	Cymenene <meta->	11.69	1104	Fenchocamphorone <α->
10.86	1083	Pyrazine <tetramethyl->	11.72	1105	Vertocitral C <trans->
10.88	1083	Fenchone	11.74	1106	Dimethyl phenol <2,6->
10.88	1083	Furfuryl propionate	11.75	1106	Phenyl ethyl alcohol
10.89	1084	Linalool oxide <trans->(furanoid)	11.77	1106	Leaf alcohol, ethyl acetal
10.94	1085	Butyl angelate	11.77	1106	Maihol
10.94	1085	Cyclohexanedione <3-methyl-1,2->	11.77	1106	Rose oxide <cis->
10.94	1085	Mentha-2,4(8)-diene <p->	11.80	1107	Acrolein <(3E)-(2-furyl)->
10.97	1086	Acetyl thiophene <2->	11.86	1108	Menthatriene <1,3,8-p->
10.98	1086	Terpinolene	11.90	1109	Benzaldehyde, dimethyl acetal
11.00	1087	Guaiacol <o->	11.95	1110	Octen-3-yl acetate <1->
11.01	1087	Hexenal <diethyl acetal <(3E)->	11.98	1111	Camphenol <6->
11.03	1087	Nonanone <2->	11.99	1111	Heptenyl acetate <(2E)->
11.05	1088	Linalool <dehydro->	12.00	1112	Isopropyl-5-methyl (2Z)-hexenal <2->
11.05	1088	Norbornen-2-ol acetate <exo-5->	12.00	1112	Thujone <trans->
11.07	1088	Methyl benzoate	12.02	1112	Heptyl acetate
11.08	1089	Pentyl butanoate	12.03	1112	Methyl butanoate, 3-methyl-3-butenyl <3->
11.09	1089	Cymenene <p->	12.07	1113	Octadienol <(2E,4E)->
11.11	1090	Hexenyl methyl carbonate <(3Z)->	12.10	1114	Fenchol <endo->
11.14	1090	Epoxymyrcene <6,7->	12.25	1117	Sabina ketone <dehydro->
11.14	1090	Hexenal <diethyl acetal <(3Z)->	12.27	1118	Isophorone
11.14	1090	Isopropyl-2-methoxypyrazine <3->	12.28	1118	Fenchol <exo->
11.15	1088	Isobutyl tiglate	12.29	1118	Menth-2-en-1-ol <cis-p->
11.19	1092	Butyl pentanoate	12.30	1119	Ethyl hexanoic acid <2->
11.20	1092	Ethyl sorbate	12.32	1119	Myrcenol
11.22	1092	Norbornen-2-ol acetate <endo-5->	12.33	1119	Mentha-2,8-dien-1-ol <trans-p->
11.23	1093	Pyrazine <methylthio->	12.33	1119	Pinene hydrate <trans->
11.30	1095	Hexenyl propionate <(3Z)->	12.35	1120	Octanol acetate <3->
11.32	1095	Camphenone <6->	12.40	1121	Ethyl 3-hydroxy hexanoate
11.32	1095	Linalool	12.45	1122	Rose oxide <trans->
11.38	1097	Nonenal <(6Z)->	12.45	1122	Undecyne <1->
11.40	1097	Ethyl heptanoate	12.46	1122	Campholenal <α->
11.40	1097	Nonanol <2->	12.50	1123	Methyl octanoate
11.41	1098	Sabinene hydrate <trans-> (IPP vs. OH)	12.53	1124	Chrysanthone
11.42	1098	Heptenol acetate <(3Z)->	12.54	1124	Stemone
11.42	1098	Hexenal <(2E)->, diethyl acetal	12.55	1124	Norborneol acetate <endo-2->
11.43	1098	Linalool <tetrahydro->	12.59	1125	Norborneol acetate <exo-2->
11.44	1099	Dimethyl styrene <2,5->	12.64	1127	Octyl formate
11.45	1099	Pinene oxide <α->	12.68	1127	Butyl tiglate
11.46	1099	Naphthalene <cis-decalhydro->	12.70	1128	Ocimene <allo->
11.48	1100	Undecane <n->	12.72	1128	Epoxy-ocimene <(Z)->
11.49	1100	Ipsenol	12.77	1130	Terpineol <1->
11.49	1100	Isopentyl 2-methyl butanoate	12.79	1130	Cyclohexyl propanoate
11.50	1100	Methyl butyl-2-methyl butyrate <2->	12.82	1131	Linalool <dihydro->
11.50	1102	Perillene	12.82	1131	Myroxide <(Z)->
11.51	1100	Nonanal <n->	12.88	1132	Limonene oxide <cis->(Me vs IPP)
11.53	1101	Hexyl propanoate	12.90	1133	Pyrazine <3-methyl-2-isobutyl->
11.56	1101	Heptenyl acetate <(2Z)->	12.93	1133	Mentha-2,8-dien-1-ol <cis-p->
11.56	1101	Thujone <cis->	12.94	1134	Benzeneacetonitrile
11.58	1102	Phenyl propanal <2->	12.94	1134	Thujanol <iso-3->
11.59	1102	Octadienal <(2E,4E)->	12.97	1134	Terpineol <trans-dihydro β->
11.60	1102	Disulfide, dipropyl	12.98	1134	Cresol acetate <o->
11.60	1102	Isopentyl isovalerate	12.99	1135	Pinocarveol <trans->
11.62	1103	Octadienal <2,2-dimethyl-3,4->	13.02	1135	Nopinone
11.65	1103	Hexenyl propanoate <(2E)->	13.04	1136	Menth-2-en-1-ol <trans-p->
11.65	1103	Methyl butyl isovalerate <2->	13.07	1137	Verbenol <cis->
11.66	1104	Isopropyl-5-methyl-(2E)-hexenal <2->	13.08	1137	Butanoate <3-methyl-2-butenyl 2-methyl->

RT	AI	Common Name
13.10	1137	Epoxycymene <(E)->
13.10	1137	Limonene oxide <trans-> (Me vs. IPP)
13.10	1137	Sabinol <trans-> (OH vs. IPP)
13.15	1138	Geijerene
13.18	1139	Pinene hydrate <cis->
13.19	1139	Tagetone <(E)->
13.20	1140	Ocimene <neo-allo->
13.20	1140	Terpineol <cis-β->
13.21	1140	Isocitral <exo->
13.22	1140	Verbenol <trans->
13.23	1140	Ipsdienol
13.23	1140	Isophorone <4-keto->
13.23	1140	Myroxide <(E)->
13.28	1141	Camphor
13.28	1141	Veratrole
13.30	1142	Hexenyl isobutanoate <(3Z)->
13.33	1143	Terpineol <trans-dihydro-α->
13.34	1143	Isoamyl angelate
13.37	1144	Isopulegol <neo->
13.37	1144	Necrodol <trans-α->
13.38	1144	Heptalactone<γ>
13.40	1144	Nonen-1-al <(2Z)->
13.43	1145	Camphene hydrate
13.43	1145	Isopulegol
13.43	1145	Myrcenone
13.45	1145	Menth-3-en-8-ol <p->
13.47	1146	Eucaryone
13.47	1146	Phenol, 2-(1Z)-propenyl
13.50	1147	Hexyl isobutanoate
13.50	1147	Thujanol <neoiso-3->
13.51	1147	Butanoate <3-methyl-2-butenyl 3-methyl->
13.54	1148	Tagetone <(Z)->
13.55	1148	Menthone
13.57	1148	Isoamyl tiglate
13.58	1148	Citronellal
13.59	1149	Ethyl hexyl acetate <2>
13.59	1149	Nonadienol <(3E,6Z)->
13.60	1149	Thujanol <neo-3->
13.62	1149	Isobutyl hexanoate
13.64	1150	Nonadienal <(2E,6Z)->
13.73	1152	Benzene <pentyl->
13.74	1152	Nonen-1-ol <(3Z)->
13.79	1153	Phenyl-tert-butanol
13.80	1154	Nerol oxide
13.82	1154	Karadanaenone
13.83	1154	Pinene oxide <β->
13.83	1154	Sabina ketone
13.86	1155	Isopulegol <iso->
13.87	1155	Hydroxy acetophenone <2'->
13.87	1155	Isoborneol
13.89	1156	Pyrazine <2-acetyl 3-ethyl->
13.89	1156	Terpineol <cis-dihydro-β->
13.91	1156	Pentyl cyclohexa-1,3-diene
13.94	1157	Nonen-1-al <(2E)->
13.95	1157	Lavandulol <tetrahydro->
13.96	1157	Benzyl acetate
13.99	1158	Menthone <iso->

RT	AI	Common Name
14.00	1158	Cresol acetate <meta->
14.00	1158	Pinocamphone<trans-> (=trans-3-pinanone)
14.02	1159	Terpineol <trans-β->
14.04	1159	Nonadienol <(2E,6Z)->
14.05	1159	Hexadienol propanoate <(2E,4E)->
14.05	1159	Menthofuran
14.06	1160	Chrysanthenol <cis->
14.06	1160	Isocitral <(Z)->
14.07	1160	Pinocarvone
14.09	1160	Terpineol <cis-dihydro-α->
14.12	1161	Dimethoxybenzene <1,4->
14.13	1161	Menthol <neo->
14.14	1162	Terpineol <δ->
14.15	1162	Nonenol <(2Z)->
14.20	1163	Nonenol <(2E)->
14.21	1163	Dimethyl aniline <2,6->
14.21	1163	Viridene
14.22	1163	Methyl 2-octenoate <(E)->
14.26	1164	Nonenol <(6Z)->
14.26	1164	Thujanol <3->
14.27	1165	Benzene <1,3-dimethoxy->
14.29	1165	Borneol
14.29	1165	Nonanol <n->
14.30	1165	Lavandulol
14.32	1166	Mentha-1,5-dien-8-ol <p->
14.32	1166	Pinocampeol
14.35	1166	Coahuilensol
14.35	1166	Cresol acetate <p->
14.36	1167	Angustifolenone
14.37	1167	Octanoic acid (=caprylic acid)
14.38	1167	Isopulegol <neoiso->
14.38	1167	Umbellulone
14.39	1167	Menthol
14.42	1168	Methoxy-3-(1-methylpropyl)pyrazine <2->
14.43	1168	Methyl-3(2-furyl)acrolein <(2Z)->
14.47	1169	Ethyl benzoate
14.48	1169	Artemisyl acetate
14.48	1169	Necrodol <cis-α->
14.50	1170	Furfuryl butanoate
14.52	1170	Linalool oxide <cis->(pyranoid)
14.54	1171	Santolinyl acetate
14.57	1172	Pinocamphone <cis-> (=cis-3-pinanone)
14.60	1172	Phenyl ethyl formate <2->
14.64	1173	Linalool oxide <trans->(pyranoid)
14.65	1173	Rosefuran epoxide
14.66	1174	Terpinen-4-ol
14.72	1175	Isoamyl acetoacetate
14.72	1175	Octane <1,1-dimethoxy->
14.73	1175	Benzene acetic acid, methyl ester
14.76	1176	Diethyl succinate
14.78	1176	Cymen-8-ol <meta->
14.78	1176	Pinocampeol <iso->
14.78	1176	Verbanol <iso->
14.79	1177	Dec-1-en-3-ol
14.82	1177	Isocitral <(E)->
14.82	1177	Santalone
14.84	1178	Naphthalene

RT	AI	Common Name	RT	AI	Common Name
14.85	1178	Ethyl-3(2-furyl)-propanoate	15.66	1197	Butanoic acid, 2-methyl-4-methylpentyl ester
14.85	1178	Methyl isoborneol <2->	15.66	1197	Methyl α -cyclogeraniate
14.86	1178	Allyl heptanoate	15.66	1197	Verbanol
14.89	1179	Heptenal <(4Z)->, diethyl acetal	15.67	1197	Octenol acetate <(2Z)->
14.91	1179	Acetophenone <p-methyl->	15.68	1197	Hexenyl lactate <(3Z)->
14.91	1179	Cymen-8-ol <p->	15.69	1198	Shisofuran
14.91	1179	Menthol <iso->	15.72	1198	Decanol <2->
14.91	1179	Pyrazine <2-methoxy-3-(2-methylpropyl)->	15.73	1199	Terpineol < γ ->
14.94	1180	Furfuryl acetone	15.74	1199	Decenal <(7Z)->
14.99	1181	Hexenyl pyruvate <(3Z)->	15.75	1199	Ethyl oct-(2Z)-enoate
14.99	1181	Thuj-3-en-10-al	15.75	1199	Menthan-2-one <trans-p->
15.00	1182	Pinocarveol <cis->	15.77	1200	Dodecane <n->
15.01	1182	Verbanol <neo->	15.80	1200	Caranone <cis-4->
15.02	1182	Maple furanone	15.80	1200	Dihydro carvone <trans->
15.07	1183	Cryptone	15.83	1201	Decanal <n->
15.07	1183	Cyclopent-2-enone <5-methylene-2,3,4,4-tetramethyl->	15.86	1202	Butanoate <3-methylpentyl, 3-methyl->
15.07	1183	Methyl-3(2-furyl)acrolein <(2E)->	15.86	1202	Elsholtzia ketone
15.09	1184	Hexenyl butanoate <(3Z)->	15.90	1202	Hexadienol isobutanoate <(2E,4E)->
15.11	1184	Dill ether	15.90	1202	Norbornene-2-methanol acetate <exo-5->
15.11	1184	Menthol <neo-iso->	15.97	1204	Verbenone
15.12	1184	Ethyl-(4E)-octenoate	15.98	1204	Cymen-9-ol <p->
15.16	1185	Decanone <3->	16.10	1207	Hexanol <3-methylthio-1->
15.19	1186	Butyl n-hexanoate <n->	16.10	1207	Piperitol <trans->
15.21	1186	Terpineol < α ->	16.12	1207	Norbornene-2-methanol acetate <endo-5->
15.24	1187	Mentha-1(7),8-dien-2-ol <trans-p->	16.14	1208	Octenol acetate <(2E)->
15.25	1187	Dodecene <1->	16.23	1210	Methoxythiophenol <2->
15.25	1187	Verbanol <neiso->	16.24	1210	Nonadienal <(2E,4E)->
15.26	1188	Heptanal, diethyl acetal-	16.30	1211	Octanol acetate
15.26	1188	Heptenal <(4E)->, diethyl acetal	16.34	1212	Dihydro carveol <iso->
15.27	1188	Cresol <2-methoxy-p->	16.35	1213	Pulegol <trans->
15.30	1189	Prenyl angelate	16.39	1214	Dihydro myrcenol acetate
15.33	1189	Phenol <2-allyl->	16.39	1214	Fragranol
15.35	1190	Methyl salicylate	16.42	1214	Linalool formate
15.38	1190	Decanone <2->	16.44	1215	Carveol <trans->
15.40	1191	Hexyl butanoate	16.48	1216	Isophorone <4-methylene->
15.41	1191	Dihydro carvone <cis->	16.53	1217	Cinnamaldehyde <(Z)->
15.45	1192	Dihydro carveol	16.55	1217	Cyclocitral < β ->
15.45	1192	Phenyl ethyl acetate <1->	16.55	1217	Elsholtzia ketone < α -dehydro->
15.47	1193	Dihydro carveol <neo->	16.55	1217	Nonadienol <(2E,4E)->
15.48	1193	Decenal <(4Z)->	16.57	1218	Fenchyl acetate <endo->
15.48	1193	Hexenyl butanoate <(2E)->	16.62	1219	Sabinene hydrate acetate <cis-> (cis for Ac vs. IPP)
15.55	1194	Dihydro citronellol	16.64	1219	Benzofuran <2,3-dimethyl->
15.55	1194	Menthan-2-one <cis-p->	16.64	1219	Coahuilensol, methyl ether
15.55	1194	Myrtenol	16.73	1221	Methyl (2E)-nonenoate
15.56	1195	Myrtenal	16.80	1223	Citronellol
15.57	1195	Anisaldehyde, <meta->	16.83	1223	Methyl nonanoate
15.57	1195	Methyl chavicol	16.85	1224	Cumenol <m->
15.59	1195	Piperitol <cis->	16.86	1224	Prenyl cyclopentanone <2->
15.60	1196	Caranone <trans-4->	16.87	1224	Hydrocinnamyl alcohol
15.60	1196	Decanol <3->	16.93	1226	Dihydro carveol <neo-iso->
15.60	1196	Decenal <(4E)->	16.94	1226	Carveol <cis->
15.60	1196	Methyl heptene carbonate	16.94	1226	Ocimenone <(Z)->
15.61	1196	Cumenol <o->	16.95	1226	Pulegol <cis->
15.63	1196	Ethyl octanoate	16.97	1227	Nerol
15.64	1196	Safranal			

RT	AI	Common Name
17.00	1227	Mentha-1(7),8-dien 2-ol <cis-p>
17.02	1228	Davanone <nor->
17.07	1229	Hexenyl 2-methyl butanoate <(3Z)->
17.09	1229	Fenchyl acetate <exo->
17.15	1231	Linalool acetate <tetrahydro->
17.19	1232	Thymol, methyl ether
17.22	1232	Hexenyl 3-methyl butanoate <(3Z)->
17.23	1233	Hexyl 2-methyl butanoate <n->
17.23	1233	Thiazole <5-acetyl-2,4-dimethyl->
17.27	1233	Pulegone
17.28	1234	Ascaridole
17.30	1234	Citronel
17.30	1234	Decen-2-one <(3E)->
17.32	1235	Neral
17.32	1235	Ocimenone <(E)->
17.33	1235	Chrysanthenyl acetate <trans->
17.36	1235	Isobornyl formate
17.47	1238	Cumin aldehyde
17.47	1238	Nojigiku acetate
17.49	1238	Hexyl-(2E) butenoate
17.50	1239	Anisaldehyde <o->
17.53	1239	Carvone
17.59	1241	Hexyl isovalerate
17.60	1241	Hexenyl isovalerate <(2Z)->
17.61	1241	Carvacrol, methyl ether
17.69	1243	Benzene acetic acid, ethyl ester
17.71	1243	Hexenyl isovalerate <(2E)->
17.72	1244	Carvotanacetone
17.75	1244	Car-3-en-2-one
17.77	1245	Perilla ketone
17.80	1245	Ethyl oct-(2E)-enoate
17.83	1246	Isoamyl hexanoate
17.83	1246	Isogeijerene C
17.84	1246	Heptyl isobutanoate
17.85	1247	Anis aldehyde <p->
17.85	1247	Chavicol
17.85	1247	Pinoamphone <trans-2-hydroxy->
17.86	1247	Butyl levulinate
17.91	1248	Hexadienol butanoate <(2E,4E)->
17.93	1248	Thymoquinone
17.95	1249	Butyrophenone
17.95	1249	Geraniol
17.95	249	Piperitone
17.96	1249	Anethole <(Z)->
17.96	1249	Methyl pentyl angelate <3->
17.97	1249	Isoquinoline
18.00	1250	Myrtanol <cis->
18.00	1250	Piperitone epoxide <cis>(epoxide vs. IPP)
18.02	1250	Octalactone <γ->
18.10	1252	Piperitone epoxide <trans->
18.12	1253	Sabinene hydrate acetate <trans-> (Ac vs. IPP)
18.16	1254	Linalool acetate
18.20	1254	Catechol <3-methyl>
18.20	1254	Phenyl ethyl acetate <2->
18.21	1255	Carvenone
18.22	1255	Benzenemethanol <2-hydroxy->

RT	AI	Common Name
18.24	1255	Decen-1-ol <(4Z)->
18.29	1257	Benzyl propanoate
18.33	1257	Methyl citronellate
18.34	1258	Myrtanol <trans->
18.38	1259	Cinnamyl alcohol <(Z)->
18.38	1259	Decen-1-ol <(4E)->
18.42	1259	Carvone oxide <cis->
18.44	1260	Decenal <(2E)->
18.51	1261	Chrysanthenyl acetate <cis->
18.51	1261	Guaiacol acetate <o->
18.57	1263	Dec-9-en-1-ol
18.58	1263	Ambersage
18.62	1264	Geranial
18.62	1264	Phenol <2-(1E)-propenyl->
18.71	1266	Ascaridol glycol <trans->
18.72	1266	Ethyl salicylate
18.73	1266	Decanol <n->
18.74	1267	Cinnamaldehyde <(E)->
18.75	1267	Thujanol acetate <iso-3->
18.77	1267	Isopropyl phenylacetate
18.77	1267	Nonanoic acid
18.79	1268	Lavandulol acetate <tetrahydro->
18.80	1268	Decen-1-ol <(2E)->
18.82	1269	Furfuryl pentanoate
18.83	1269	Perilla aldehyde
18.84	1269	Tetrahydro jasmone <cis->
18.87	1270	Ethyl chrysanthemumate <cis->
18.89	1270	Nonenal <dimethyl acetal-(3Z)->
18.92	1271	Citronellyl formate
18.92	1271	Menthyl acetate <neo->
18.99	1272	Linalool acetate <dihydro->
19.00	1273	Menth-1-en-7-al <p->
19.02	1273	Carvone oxide <trans->
19.04	1273	Thujanol acetate <neo-3->
19.05	1274	Isopulegyl acetate <neo->
19.05	1274	Pregeijerene B
19.05	1274	Thio rose oxide <cis->
19.10	1275	Hexenyl angelate <(3Z)->
19.10	1275	Isopulegyl acetate
19.15	1276	Octalactone <δ->
19.18	1277	Ethyl chrysanthemumate <trans->
19.19	1277	Nonanal, dimethyl acetal
19.22	1278	Allyl octanoate
19.23	1278	Nopol
19.24	1278	Anisyl alcohol <p->
19.28	1279	Hexenyl valerate <(3Z)->
19.30	1279	Ethyl acetophenone <p->
19.31	1280	Anisyl alcohol <meta->
19.31	1280	Methyl benzyl propanoate <α->
19.32	1280	Neryl formate
19.32	1280	Octen-3-ol butanoate <1->
19.34	1280	Ethyl menthone <2->
19.34	1280	Methyl nerolate
19.35	1280	Verbenyl acetate <cis->
19.38	1281	Thujanol acetate <neoiso-3->
19.40	1282	Ethyl-2-octynoate
19.40	1282	Hexenyl valerate <(2Z)->

RT	AI	Common Name	RT	AI	Common Name
19.42	1282	Necrodol acetate <trans- α ->	20.14	1298	Carvacrol
19.43	1282	Anethole <(E)->	20.17	1299	Terpinen-4-ol acetate
19.45	1283	Isopulegyl acetate <iso->	20.18	1299	Methyl cinnamate <(Z)->
19.46	1283	Terpinen-7-al < α ->	20.18	1299	Necrodol acetate <cis- α ->
19.48	1283	Cogejierene	20.18	1299	Undec-10-en-1-al
19.48	1283	Isobornyl acetate	20.19	1300	Tridecane <n->
19.51	1284	Undecanol <6->	20.20	1300	Undecenal <(8Z)->
19.52	1284	Undecanol <5->	20.22	1300	Terpinyl acetate <trans-dihydro- α ->
19.53	1285	Cyclopentadiene carboxylic acid <3,4,5,5-tetramethyl-1,3->	20.26	1301	Undecanol <2->
19.56	1285	Safrole	20.29	1302	Elsholtzia ketone < β -dehydro->
19.57	1285	Pregeijerene	20.29	1302	Vanillin <o->
19.60	1286	Hydroxy citronellal	20.36	1303	Cinnamyl alcohol <(E)->
19.60	1286	Undecan-4-ol	20.36	1303	Nonadienol acetate <(2E,6Z)->
19.62	1287	Bornyl acetate	20.39	1304	Menthyl acetate <iso->
19.62	1287	Fenchol <2-ethyl-endo->	20.40	1304	Butanoic acid, 2-methyl-4-methylhexyl ester
19.64	1287	Hexenyl valerate <(2E)->	20.42	1305	Cresol isobutyrate <p->
19.64	1287	Linalool oxide acetate <trans-> (pyranoid)	20.45	1305	Undecanal
19.64	1287	Pearlate (=3-octenol, propanoate)	20.48	1306	Dihydro carveol acetate
19.67	1288	Limonen-10-ol	20.48	1306	Dihydro carveol acetate <neo->
19.68	1288	Tetradecatriene <(3Z,6Z,9Z)->	20.49	1306	Nonenol acetate <(2E)->
19.69	1288	Cyclopent-2-en-1-one <2-pentyl->	20.58	1308	Verbanol acetate <iso->
19.70	1288	Lavandulyl acetate	20.59	1309	Guaiacol <p-vinyl->
19.71	1289	Thymol	20.61	1309	Tetrahydro jasmone <trans->
19.73	1289	Sabinyl acetate <trans-> (IPP vs. Acetyl)	20.63	1309	Carvotanacetone <6-hydroxy->
19.74	1289	Butyl heptanoate	20.63	1309	Veloutone
19.74	1289	Cymen-7-ol <p->	20.64	1310	Adamantanone <2->
19.76	1290	Acetanisole <o->	20.64	1310	Isoamyl benzyl ether
19.76	1290	Indole	20.68	1311	Pinocarvyl acetate <cis->
19.76	1290	Terpinen-7-al < γ ->	20.69	1311	Nonanyl acetate <n->
19.77	1290	Tridecene <1->	20.69	1311	Sesamol
19.83	1291	Verbenyl acetate <trans->	20.70	1311	Undec-9E-en-1-al
19.84	1292	Prenyl hexanoate	20.73	1312	Isopulegyl acetate <neoiso->
19.85	1292	Cyclohexanol acetate <cis-2-tert-butyl->	20.74	1312	Cyclohexanol acetate <trans-2-tert-butyl->
19.86	1292	Decadienal <(2E,4Z)->	20.75	1312	Citronelllic acid
19.90	1293	Undecanone <2->	20.79	1313	Trimethyl benzaldehyde <2,3,4->
19.92	1293	Isomenthone <2-ethyl->	20.83	1314	Cryptone <4-hydroxy->
19.92	1293	Methyl myrtenate	20.87	1315	Decadienal <(2E,4E)->
19.92	1293	Undecanol <3->	20.88	1315	Hexenyl tiglate <(3E)->
19.93	1294	Camphorquinone	20.90	1316	Terpinyl acetate < δ ->
19.93	1294	Menthyl acetate	20.91	1316	Terpinyl acetate <cis-dihydro- α ->
19.94	1294	Perilla alcohol	20.93	1316	Citral <dimethoxy-(Z)->
19.94	1294	Phenyl ethane <1-nitro-2->	20.94	1316	Patchenol <(Z)->
19.95	1294	Thio rose oxide <trans->	20.96	1317	Cycloisolongifolene <didehydro->
19.96	1294	Menth-1-en-9-ol <p->	21.00	1318	Cinnamaldehyde < α -methyl->
19.98	1295	Methyl octine carbonate	21.01	1318	Pinanediol <cis-2,3->
19.98	1295	Thujanol acetate <3->	21.02	1318	Methyl thujate
20.05	1296	Nonadienol acetate <(3E,6Z)->	21.04	1319	Dihydro citronellol acetate
20.08	1297	Fenchol <2-ethyl-exo->	21.04	1319	Dimethyl phenethyl acetate < α , α ->
20.09	1297	Benzyl isobutanoate	21.05	1319	Verbanol acetate <neo->
20.10	1297	Carvacrol, ethyl ether	21.07	1319	Decadienol <(2E,4E)->
20.11	1298	Acetophenone <3'-methoxy->	21.07	1319	Hexenyl tiglate <(3Z)->
20.11	1298	Azulene	21.11	1320	Hexyl 2-methyl-3-pentenoate
20.11	1298	Geranyl formate	21.16	1321	Nonyne <1,1-dimethoxy-2->
20.11	1298	Pinocarvyl acetate <trans->	21.17	1322	Undec-9Z-en-1-al
20.12	1298	Carquejol acetate	21.18	1322	Jasmonol <trans,(E)->
20.13	1298	Octenol propanoate <(5Z)->	21.19	1322	Methyl geranate
			21.23	1323	Methyl decanoate

RT	AI	Common Name
21.28	1324	Phenyl ethyl oxyacetaldehyde
21.29	1324	Myrtenyl acetate
21.30	1325	Mentha-1,4-dien-7-ol <p>
21.36	1326	Dihydro carveol acetate <iso>
21.37	1326	Limonene aldehyde
21.37	1326	Silphiperfol-5-ene
21.39	1327	Hasmigone <(Z)>
21.39	1327	Isobutyl benzoate
21.43	1328	Jasmonol <cis,(E)>
21.44	1328	Menthol <8-hydroxy-neo>
21.45	1328	Patchenol <(E)>
21.45	1328	Verbanol acetate <neoiso>
21.51	1329	Piperonal
21.52	1330	Anisyl formate
21.54	1330	Hexyl tiglate
21.56	1330	Menth-1-en-7-al <3-oxo-p>
21.63	1332	Piperitol acetate <cis>
21.68	1333	Hasmigone <(E)>
21.70	1334	Presilphiperfol-7-ene
21.72	1334	Anthranilate <methyl>
21.72	1334	Methyl o-anisate
21.73	1334	Linalool propanoate
21.76	1335	Benzenemethanol <4-hydroxy>
21.77	1335	Elemene <δ>
21.80	1336	Phenyl pentan-3-one <1>
21.82	1336	Isosafrole <(Z)>
21.85	1337	Evodone
21.90	1338	Citral <dimethoxy-(E)>
21.90	1338	Indanol <5>
21.92	1339	Benzenemethanol(3-hydroxy>
21.92	1339	Octanediol <2,4>
21.95	1339	Butanone <3-hydroxy-4-phenyl-2>
21.95	1339	Carvyl acetate <trans>
21.96	1340	Mentho thiophene
21.97	1340	Dihydroisojasmone
21.98	1340	Piperitenone
22.00	1340	Verbanol acetate
22.09	1342	Nicotine
22.10	1343	Piperitol acetate <trans>
22.13	1343	Benzyl butanoate
22.18	1345	Silphinene
22.20	1345	Silphiperfol-5-ene <7-epi>
22.24	1346	Phenol <2,6-dimethoxy>
22.26	1346	Terpinyl acetate <α>
22.30	1347	Acetophenone <4'-methoxy>
22.30	1347	Carvomenthyl acetate <neoiso>
22.31	1347	Triacetin
22.33	1345	Cubebene <α>
22.38	1349	Thymol acetate
22.41	1350	Citronellyl acetate
22.41	1350	Longipinene <α>
22.47	1351	Phenyl ethyl propanoate <2>
22.48	1351	Ethyl nerolate
22.51	1352	Trimethyl benzaldehyde <2,3,6>
22.57	1353	Butyl butyryl lactate
22.64	1355	Damascone <(Z)-α>
22.65	1355	Hydroxybenzaldehyde <4>

RT	AI	Common Name
22.69	1356	Dihydro carveol acetate <neoiso>
22.70	1356	Eugenol
22.73	1357	Nepetalactone <4α,7α,7α>
22.74	1357	Mentha-8-thiol-3-one <cis-p>
22.74	1357	Undecenol <(2E)>
22.77	1358	Silphiperfol-4,7(14)-diene
22.78	1358	Nonalactone <γ>
22.80	1359	Decenoic acid <9>
22.81	1359	Neryl acetate
22.83	1359	Hydroxy citronellol
22.89	1361	Damascenone <(Z)-β>
22.90	1361	Undecenol <10>
22.93	1361	Anisaldehyde <p>, dimethylacetal
23.00	1363	Methyl benzyl butyrate <α>
23.02	1364	Decanoic acid
23.05	1364	Mentholactone <cis>
23.08	1365	Carvyl acetate <cis>
23.08	1365	Undecenol <(2E)>
23.10	1365	Undecanal <2-methyl>
23.11	1366	Hydrocinnamyl acetate
23.12	1366	Piperitenone oxide
23.15	1366	Eugenol <dihydro>
23.16	1367	Furfuryl hexanoate
23.19	1367	Undecanol <n>
23.23	1368	Orcinol
23.25	1369	Cyclosativene
23.32	1370	Carvacrol acetate
23.33	1371	Methyl p-anisate
23.35	1371	Mentholactone <trans>
23.36	1371	Mentha-8-thiol-3-one <trans-p>
23.37	1371	Longicyclene
23.37	1371	Menth-6-en-2,8-diol <trans-p>
23.38	1372	Angustione
23.42	1373	Benzene acetonitrile <3-methoxy>
23.43	1373	Linalool isobutanoate
23.43	1373	Ylangene <α>
23.45	1373	Isosafrole <(E)>
23.48	1374	Isodene
23.49	1374	Copaene <α>
23.51	1375	Biphenyl
23.52	1375	Decane <1,1-dimethoxy>
23.55	1376	Ethyl cinnamate <(Z)>
23.55	1376	Ionol <α-(E)>
23.58	1376	Methyl cinnamate <(E)>
23.61	1377	Silphiperfol-6-ene
23.65	1378	Allyl nonanoate
23.65	1378	Hexenyl hexanoate <(3Z)>
23.66	1378	Coumarin <3,4-dihydro>
23.67	1378	Jasmone <dihydro>
23.69	1379	Dictamnol <8-epi>
23.70	1379	Geranyl acetate
23.70	1379	Patchoulene <β>
23.73	1380	Nonadienal <diethylacetal-(2E,6Z)>
23.74	1380	Anisole <p-but-(1E)-enyl>
23.74	1380	Daucene
23.75	1380	Anisyl methyl ketone
23.75	1380	Ethyl-(4E)-decenoate

RT	AI	Common Name
23.75	1380	Funebrene <2-epi- α ->
23.75	1380	Thujic acid
23.77	1380	Phenyl-4-methyl-pentan-3-one <1->
23.78	1381	Ethyl 2-nonynoate
23.78	1381	Panasinsene < β ->
23.80	1381	Angustione <dehydro->
23.81	1381	Skatole
23.83	1382	Hexyl hexanoate
23.83	1382	Modheph-2-ene
23.86	1383	Hexenyl-(3Z)-hexenoate <(3Z)->
23.87	1383	Damascenone <(E)- β ->
23.88	1383	Isobornyl propanoate
23.97	1385	Myrtanol acetate <trans->
23.98	1385	Nonalactone < δ ->
23.99	1385	Hexenyl caproate <(2E)->
24.00	1386	Damascone <(Z)- β ->
24.00	1386	Nepetalactone <4 α ,7 α ,7 α β ->
24.01	1386	Isobutyl phenylacetate
24.03	1386	Octenol butanoate <(2E)->
24.04	1387	Cubebene < β ->
24.05	1387	Bourbonene < β ->
24.05	1387	Isocomene < α ->
24.07	1387	Duprezianene < α ->
24.09	1388	Methyl decyl ketone (=2-dodecanone)
24.10	1388	Cinnamyl acetate <(Z)->
24.10	1388	Tetradecene <1->
24.12	1388	Jasmone <iso->
24.14	1389	Longifolene <iso->
24.15	1389	Dodecanone <3->
24.15	1389	Elemene < β ->
24.18	1390	Thiazole ethanol acetate <4-methyl-5->
24.19	1390	Jasmone <(E)->
24.19	1390	Sesquithujene <7-epi->
24.21	1390	Sativene
24.24	1391	Nepetalactone <4 α ,7 β ,7 α ->
24.26	1392	Jasmone <(Z)->
24.28	1392	Damascone <(E)- α ->
24.30	1392	Methyl perillate
24.31	1393	Phenyl ethyl isobutanoate
24.32	1393	Vanillin
24.37	1394	Benzene <1,3-dimethoxy-5-(1-methylethyl)->
24.37	1394	Ethyl geranate
24.40	1395	Ethyl decanoate
24.44	1396	Chamipinene < α ->
24.51	1397	Trimenal <(Z)->
24.54	1398	Cyperene
24.55	1398	Jasmonyl acetate <(E)->
24.57	1399	Decenyl acetate <9->
24.57	1399	Geosmin
24.61	1400	Hexenyl 2-methyl-2-pentenoate <(3Z)->
24.61	1400	Tetradecane <n->
24.62	1400	Sibirene
24.64	1400	Longipinene < β ->
24.69	1401	Italicene <iso->
24.71	1402	Funebrene < α ->
24.75	1403	Methyl eugenol
24.76	1403	Cresol acetate <methyl->

RT	AI	Common Name
24.84	1405	Italicene
24.84	1405	Sesquithujene
24.86	1405	Methyl anthranilate <methyl-n->
24.90	1406	Cycloseychellene
24.90	1406	Isoeugenol <(Z)->
24.92	1407	Barbatene < α ->
24.92	1407	Longifolene
24.93	1407	Acora-3,7(14)-diene
24.94	1407	Decyl acetate
24.94	1407	Isocomene < β ->
24.95	1408	Caryophyllene <(Z)->
24.95	1408	Dodecanal
24.96	1408	Decenyl acetate <(2E)->
25.00	1409	Gurjunene < α ->
25.01	1409	Citronellyl oxy-acetaldehyde
25.06	1410	Cedrene < α ->
25.06	1410	Thujaplicin < α ->
25.10	1411	Bergamotene < α -cis->
25.10	1411	Ionone <dihydro- α ->
25.11	1411	Funebrene <2-epi- β ->
25.13	1412	Anisyl acetate <p->
25.15	1412	Ionol < β ->
25.15	1412	Nerone <cis->
25.17	1413	Damascone <(E)- β ->
25.19	1413	Ethyl hydroquinone
25.19	1413	Funebrene < β ->
25.23	1414	Anthranilate <ethyl->
25.23	1414	Davanafuran <cis,threo->
25.26	1415	Caryophyllane <4,8- α -epoxy->
25.27	1415	Ambrinol <trans- α ->
25.28	1415	Undecadienal <(2E,4E)->
25.31	1416	Santalene < α ->
25.33	1417	Dicyclohexyl amine
25.33	1417	Ethyl-(2E)-decanoate
25.36	1417	Caryophyllene <(E)->
25.42	1419	Cedrene < β ->
25.43	1419	Ylangene < β ->
25.45	1419	Trimenal <(E)->
25.48	1420	Carvyl propanoate <cis->
25.51	1421	Cymen-7-ol acetate <p->
25.51	1421	Duprezianene < β ->
25.51	1421	Lavandulyl isobutanoate
25.53	1421	Linalool butanoate
25.53	1421	Menth-1-en-9-ol acetate <p->
25.54	1422	Carvone hydrate
25.58	1423	Phenyl hexan-3-one <1->
25.59	1423	Caryophyllane <4,8 β -epoxy->
25.59	1423	Isobutyl salicylate
25.60	1423	Meftanal
25.61	1423	Allyl cyclohexyl propanoate
25.65	1424	Nopyl acetate
25.66	1424	Cymene <2,5-dimethoxy-p->
25.66	1424	Methyl undecanoate
25.79	1428	Dictamnol
25.81	1428	Ionone <(E)- α ->
25.86	1429	Thujopsene <cis->
25.88	1430	Isoamyl 3-(2-furan)propionate

RT	AI	Common Name
25.90	1430	Copaene <β>
25.94	1431	Xanthostenone
25.95	1431	Gerjunene <β>
25.95	1431	Isobornyl isobutanoate
25.97	1432	Coumarin
25.99	1432	Bergamotene <α-trans>
26.00	1433	Arbozol <endo>
26.03	1433	Isoamyl benzoate
26.06	1434	Neryl acetone
26.08	1434	Elemene <γ>
26.08	1434	Ionone <dihydro-β>
26.12	1435	Nezukone
26.15	1436	Lavandulyl acetate <hydroxydihydro>
26.16	1436	Humulene <β>
26.16	1436	Isobazzanene
26.19	1437	Hyacinth Body #3
26.20	1437	Guaiene <α>
26.24	1438	Methyl butyl benzoate <2>
26.24	1438	Phenyl propyl isobutanoate <2>
26.25	1438	Nerone <trans>
26.26	1439	Ambrinol <cis-α>
26.27	1439	Aromadendrene
26.27	1439	Phenyl ethyl butanoate <2>
26.32	1440	Barbatene <β>
26.32	1440	Phenol acetate <2,6-dimethoxy>
26.32	1440	Pinonic acid
26.33	1440	Farnesene <(Z)-β>
26.37	1441	Cedrane
26.39	1442	Guaiadiene <6,9>
26.42	1442	Isoamyl octanoate
26.44	1443	Prenyl limonene <cis>
26.46	1443	Cinnamyl acetate <(E)>
26.46	1443	Iridolactone <trans. cis>
26.47	1444	Acetylacetophenone <p>
26.47	1444	Bakerol
26.47	1444	Citronellyl propanoate
26.47	1444	Naphthalene <1-methoxy>
26.48	1444	Prezizaene
26.49	1444	Vestitenone
26.50	1444	Acora-2,4(15)-diene
26.50	1444	Cabreuva oxide A
26.50	1444	Seychellene
26.51	1445	Dodecadien-1-ol <(2Z,6E)>
26.51	1445	Santalene <epi-β>
26.51	1445	Vanillyl alcohol
26.53	1445	Myrtal-4(12)-ene
26.53	1445	Naphthalene <2-methoxy>
26.62	1447	Cedrane <epi>
26.62	1447	Hexyl 2-furoate
26.64	1448	Muuroa-3,5-diene <cis>
26.67	1448	Isoeugenol <(E)>
26.68	1449	Himachalene <α>
26.69	1449	Spirolepechinene
26.71	1449	Amorpha-4,11-diene
26.73	1450	Davana. bis-ether
26.78	1451	Methyl isoeugenol <(Z)>
26.78	1451	Muuroa-3,5-diene <trans>

RT	AI	Common Name
26.80	1452	Cinnamic acid <(E)>
26.80	1452	Clovene <α-neo>
26.81	1452	Arbozol <exo>
26.82	1452	Humulene <α>
26.83	1452	Neryl propanoate
26.83	1452	Vanillin <ethyl>
26.84	1452	Jasmonyl acetate <(Z)>
26.85	1453	Geranyl acetone
26.85	1453	Khusimene
26.90	1454	Carvyl propanoate <trans>
26.92	1454	Farnesene <(E)-β>
26.92	1454	Patchoulene <α>
26.99	1456	Maltol propionate
27.04	1457	Croweacin
27.04	1457	Prenyl limonene <trans>
27.05	1457	Decenal <(4Z)>, diethyl acetal
27.05	1457	Rotundene
27.05	1457	Santalene <β>
27.05	1457	Sesquisabinene
27.07	1458	Aromadendrene <allo>
27.08	1458	Ionol <α-isomethyl-(E)>
27.10	1459	Cyclamen aldehyde
27.10	1459	Difurfuryl sulfide
27.16	1460	Aromadendrane <dehydro>
27.18	1461	Ageratochromene <6-demethoxy>
27.18	1461	Cadina-1(6),4-diene <cis>
27.23	1462	Cabreuva oxide B
27.32	1464	Acoradiene <α>
27.33	1464	Caryophyllene <9-epi-(E)>
27.33	1464	Dodecenal <(2E)>
27.35	1465	Decalactone <γ>
27.35	1465	Ishwarane
27.35	1465	Muuroa-4(14),5-diene <cis>
27.37	1465	Ethyl cinnamate <(E)>
27.38	1465	Thujopsadiene <cis>
27.42	1466	Furfuryl heptanoate
27.43	1466	Cabreuva oxide C
27.43	1466	Linalool isovalerate
27.44	1467	Menthyl lactate <neo>
27.45	1467	Ethyl-(2E,4Z)-decadienoate
27.50	1468	Pinhotene acetate
27.52	1469	Acoradiene <β>
27.52	1469	Dodecanol <n>
27.54	1469	Salicylic acid, butyl ester
27.54	1469	Sesquiceneole <dehydro>
27.55	1469	Dodecen-1-ol <(2E)>
27.56	1470	Jasmone lactone <(3Z)>
27.57	1470	Cumacrene
27.59	1470	Macrocarpene <α>
27.60	1471	Dauca-5,8-diene
27.60	1471	Massoia lactone
27.62	1471	Sesquiceneole <7-epi-1,2-dehydro>
27.62	1471	Terpinyl isobutanoate <α>
27.63	1471	Aristolochene <4,5-di-epi>
27.72	1473	Isobornyl n-butanoate
27.73	1474	Acoradiene <10-epi-β>
27.73	1474	Decenal <(4E)>, diethyl acetal

RT	AI	Common Name
27.73	1474	Undecanal, dimethyl acetal
27.75	1474	Neocallitropsene <α>
27.77	1475	Cadina-1(6),4-diene <trans>
27.78	1475	Methyl vanillin
27.79	1475	Thujaplicin <β>
27.80	1475	Gurjunene <γ>
27.82	1476	Chamigrene <β>
27.82	1476	Geranyl propanoate
27.84	1476	Allyl decanoate
27.84	1476	Pentyl benzoate
27.89	1477	Pyran-2-one <6-nonyl-5,6-dihydro-2H>
27.91	1478	Amorphane <trans-4,10-epoxy>
27.91	1478	Murolene <γ>
27.92	1478	Ionone <isomethyl-α-(E)>
27.94	1479	Cabreuva oxide D
27.96	1479	Cureumene <ar>
27.96	1479	Ionol <methyl-β-(E)>
27.97	1479	Amorpha-4,7(11)-diene
28.00	1480	Ionone <methyl-γ>
28.02	1480	Cyclogeranyl acetate <α>
28.03	1481	Widdra-2,4(14)-diene
28.04	1481	Cureumene <γ>
28.05	1481	Amorphane <cis-4,10-epoxy>
28.05	1481	Himachalene <γ>
28.05	1481	Menthyl lactate
28.05	1481	Vanillone, aceto-
28.07	1482	Citronellol isobutanoate
28.08	1482	Decalactone <γ-methyl-γ>
28.09	1482	Toluene <2,4,6-trimethoxy>
28.12	1483	Phenyl propyl butanoate <2>
28.12	1483	Thujaplicin <γ>
28.13	1483	Amorphene <α>
28.14	1483	Jasmone lactone <(3E)>
28.15	1484	Germaerene D
28.19	1485	Prenyl benzoate
28.20	1485	Himachala-1,4 diene <11αH>
28.24	1486	Benzyl acetylacetate
28.25	1486	Phenyl ethyl 2-methylbutanoate
28.28	1487	Aristolochene
28.30	1487	Ionone <(E)-β>
28.31	1487	Jasmolactone <(Z)>
28.34	1488	Butylated hydroxy anisole
28.35	1488	Methyl biphenyl <4>
28.36	1489	Eudesma-6,11-diene <cis>
28.37	1489	Selinene <β>
28.38	1489	Vetispirene <α>
28.43	1490	Neryl isobutanoate
28.43	1490	Phenyl ethyl 3-methyl butanoate
28.45	1491	Drim-8(12)-ene
28.45	1491	Jasmolactone <(E)>
28.47	1491	Calamenene <10,11-epoxy>
28.47	1491	Methyl isoeugenol <(E)>
28.49	1492	Menthyl lactate <iso>
28.49	1492	Selinene <δ>
28.51	1492	Guaiene <cis-β>
28.53	1493	Capillene
28.53	1493	Murola-4(14),5 diene <trans>

RT	AI	Common Name
28.53	1493	Vetispirene <β>
28.53	1493	Zingiberene <α>
28.55	1493	Cubebol <epi>
28.55	1493	Decalactone <δ>
28.55	1493	Raspberry ketone, methyl ether
28.58	1494	Maltol isobutyrate
28.62	1495	Asaricin
28.62	1495	Cadina 1,4 diene <cis>
28.63	1495	Amorphene <γ>
28.64	1495	Tridecanone <2>
28.65	1495	Coumarin <3-methyl>
28.66	1496	Valencene
28.68	1496	Viridiflorene
28.69	1496	Indipone
28.70	1497	Methyl p-tert-butylphenyl acetate
28.71	1497	Benzyl tiglate
28.72	1497	Sandalore
28.74	1498	Selinene <α>
28.75	1498	Alaskene <β>
28.75	1498	Pseudowiddrene
28.76	1498	Undecenol acetate <10>
28.77	1498	Apofarnesal <(Z)-dihydro>
28.79	1499	Curzerene
28.80	1499	Dihydroagarofuran <4-epi-cis>
28.81	1499	Macrocarpene <β>
28.82	1500	Pentadecane <n>
28.82	1500	Himachalene <β>
28.83	1500	Bicyclogermaerene
28.83	1500	Isodaucene
28.83	1500	Murolene <α>
28.88	1501	Epizonarene
28.89	1501	Aciphyllene
28.89	1501	Allyl anthranilate
28.89	1501	Decyl propanoate
28.91	1502	Patchoulene <γ>
28.92	1502	Cyclododecanone
28.92	1502	Guaiene <trans-β>
28.95	1503	Dihydro agarofuran <β>
28.95	1503	Piperonyl acetate
28.96	1503	Chamigrene <α>
29.00	1504	Cuparene
29.00	1504	Undecenol acetate <(2E)>
29.03	1505	Cuprenene <α>
29.03	1505	Farnesene <(E,E)-α>
29.04	1505	Bisabolene <β>
29.05	1505	Premnaspirodiene
29.09	1506	Bisabolene <(Z)-α>
29.12	1507	Silphiperfolan-6 α-ol
29.18	1508	Farnal
29.18	1508	Germaerene A
29.19	1509	Lavandulyl isovalerate
29.20	1509	Bulnesene <α>
29.20	1509	Thujaplicinol <α>
29.22	1509	Tridecanal
29.23	1510	Quinoline <6-isopropyl>
29.26	1510	Anisyl propanoate
29.26	1510	Cameroonan-7α-ol

RT	AI	Common Name
29.27	1511	Lavandulyl 2-methyl butanoate
29.29	1511	Amorphene <δ>
29.31	1512	Alaskene <α>
29.31	1512	Macrocarpene <(Z)-γ>
29.35	1513	Cadinene <γ>
29.35	1513	Cycloisolongifol-5-ol <trans>
29.35	1513	Modhephen-8β-ol
29.40	1514	Bisabolene <(Z)-γ>
29.40	1514	Italicene epoxide <iso>
29.41	1514	Cubebol
29.41	1514	Geranyl isobutanoate
29.42	1514	Curcumene <β>
29.43	1514	Butylated hydroxytoluene
29.44	1515	Sesquicineole
29.45	1515	Italicene ether <10-epi>
29.48	1516	Himachalene <α-dehydro-ar>
29.50	1516	Menthyl isovalerate
29.53	1517	Nootkatene
29.54	1517	Myristicin
29.56	1518	Dodecadienal <(2E,4E)->
29.57	1518	Silphiperfolan-6β-ol <7-epi>
29.59	1518	Bourbonanol <endo-1>
29.60	1519	Dihydroagarofuran <cis>
29.60	1519	Myrac aldehyde
29.62	1519	Bazzanene <β>
29.62	1519	Silphiperfolan-7β-ol
29.65	1520	Apofarnesal <(E)-dihydro>
29.65	1520	Ionone <6-methyl-α>
29.67	1520	Selinene <7-epi-α>
29.69	1521	Calamenene <trans>
29.70	1521	Eugenol acetate
29.70	1521	Isobornyl isovalerate
29.70	1521	Sesquiphellandrene <β>
29.72	1522	Cadinene <δ>
29.74	1522	Artedouglasia oxide C
29.76	1523	Isobornyl 2-methyl butanoate
29.77	1523	Dodecadienol <(2E,4E)->
29.80	1524	Chavibetol acetate
29.82	1524	Methyl dodecanoate
29.83	1524	Phenyl heptan-3-one <I>
29.85	1525	Vanillin acetate
29.88	1526	Macrocarpene <ar>
29.92	1527	Macrocarpene <(E)-γ>
29.93	1527	Lilial
29.93	1527	Methoxy cinnamaldehyde <(E)-o>
29.96	1528	Bisabolene <(E)-iso-γ>
29.96	1528	Laciniata furanone G
29.97	1528	Octenyl cyclopentanone <(E)->
29.97	1528	Zonarene
30.02	1529	Kessane
30.03	1529	Bisabolene <(E)-γ>
30.03	1529	Nopsan-4-ol
30.05	1530	Citronellyl butanoate
30.05	1530	Dauca-4(11),8-diene
30.08	1530	Himachalene <γ-dehydro-ar>
30.09	1531	Laciniata furanone F
30.09	1531	Nerolidol <(Z)->

RT	AI	Common Name
30.09	1531	Vetivenene <γ>
30.11	1528	Calamenene <cis>
30.14	1532	Cuprenene <γ>
30.14	1532	Hydroxy citronellal <diethyl acetal>
30.18	1533	Cadina-1,4-diene <trans>
30.19	1533	Cubebol <10-epi>
30.22	1534	Artedouglasia oxide A
30.23	1534	Silphiperfol-5-en-3-ol B
30.24	1534	Liguloxide
30.25	1535	Isopentyl salicylate
30.30	1536	Eugenol acetate <dihydro>
30.30	1536	Italicene ether
30.32	1536	Thujaplicinol <β>
30.33	1537	Cadinene <α>
30.34	1537	Ionol acetate <β-(E)->
30.39	1538	Europelargone A
30.40	1538	Veltonal <(Z)->
30.43	1539	Copaen-11-ol <α>
30.45	1540	Dracunculifolol <10-epi-cis>
30.46	1540	Carpacin <(Z)->
30.47	1540	Laciniata furanone E
30.50	1541	Cedranoxide <8,14>
30.50	1541	Dracunculifolol <cis>
30.54	1542	Cuprenene <δ>
30.56	1542	Sesquisabinene hydrate <cis>
30.59	1543	Isoamyl nonanoate
30.62	1544	Calacorene <α>
30.66	1545	Selina-3,7(11)-diene
30.67	1545	Raspberry ketone
30.69	1545	Flavesone
30.70	1546	Silphiperfolan-6β-ol
30.72	1546	Hedycaryol
30.74	1547	Italicene epoxide
30.75	1547	Decanediol <1,10>
30.78	1548	Allyl cinnamate <(E)->
30.78	1548	Elemol
30.79	1548	Agarofuran <α>
30.80	1548	Laciniata furanone H
30.86	1550	Murol-5-en-4β-ol <cis>
30.86	1550	Silphiperfol-5-en-3-one B
30.88	1550	Occidentalol
30.89	1550	Lippifoli-1(6)-en-5-one
30.94	1552	Cadinene ether <cis>
30.98	1553	Coumarin <6-methyl>
30.98	1553	Isocroceacin <(E)->
30.99	1553	Thymohydro quinone
31.00	1553	Norpatchoulanol
31.02	1554	Vetivenene <β>
31.07	1555	Veltonal <(E)->
31.08	1555	Ionol acetate <(Z)-α-isomethyl>
31.09	1555	Elemicin
31.11	1556	Dauca-4(11),7-diene <trans>
31.14	1557	Cadinene ether <trans>
31.18	1557	Silphiperfol-5-en-3-ol A
31.22	1558	Artedouglasia oxide D
31.22	1558	Fremophila ketone
31.24	1559	Germacrene B

RT	AI	Common Name
31.24	1559	Muurol-5-en-4 α -ol <cis->
31.32	1561	Bourbonanone <1-nor->
31.32	1561	Nerolidol <(E)->
31.35	1562	Longicamphenylone
31.35	1562	Longipinanol <epi->
31.36	1562	Geranyl butanoate
31.38	1562	Cinnamaldehyde <(E)-p-methoxy->
31.43	1564	Calacorene < β ->
31.44	1564	Bornyl angelate
31.44	1564	Carvotanacetone <8-acetoxy->
31.46	1564	Davanone B
31.47	1565	Dodecanoic acid
31.48	1565	Hexenyl benzoate <(3Z)->
31.49	1565	Ionone <dimethyl->
31.51	1566	Isoeugenol acetate <(Z)->
31.51	1566	Jasmolactone, extra C <(Z)->
31.52	1566	Furfuryl octanoate
31.53	1566	Maaliol
31.55	1567	Tridecen-1-al <(2E)->
31.56	1567	Palustrol
31.57	1567	Ionol acetate <(E)- α -isomethyl->
31.58	1567	Longipinanol
31.62	1568	Isoelemicin <(E)->
31.62	1568	Isoelemicin <(Z)->
31.62	1568	Tridecenol <(2E)->
31.65	1569	Undecalactone < γ ->
31.68	1570	Tridecanol <n->
31.69	1570	Dendrolasin
31.70	1570	Amorph-4-ene <1 α ,10 α -epoxy->
31.70	1570	Caryophyllenyl alcohol
31.72	1571	Apofarnesol <(Z)-dihydro->
31.73	1571	Caryolan-8-ol
31.78	1572	Asarone < γ ->
31.84	1574	Cedrene epoxide < α ->
31.84	1574	Silphiperfol-5-en-3-one A
31.85	1574	Germaerene D-4-ol
31.85	1574	Pentyl salicylate
31.86	1574	Zierone
31.91	1575	Prenopsan-8-ol
31.92	1576	Santalenone
31.96	1577	Spathulenol
31.99	1577	Sesquisabinene hydrate <trans-> (IPP vs. OH)
32.01	1578	Himachalene epoxide
32.02	1578	Jasmolactone, extra C <(E)->
32.05	1579	Hexyl benzoate <n->
32.12	1581	Arctedouglasia oxide B
32.12	1581	Hexyl octanoate
32.14	1581	Pygmacin
32.16	1582	Caryophyllene oxide
32.17	1582	Turnerol <ar->
32.18	1582	Neryl isovalerate
32.25	1584	Octanedioic acid, diethyl ester
32.25	1584	Phenyl ethyl tiglate <2->
32.30	1585	Presilphiperfolan-8-ol
32.33	1586	Gleenol
32.34	1586	Thujopsan-2 α -ol

RT	AI	Common Name
32.37	1587	Davanone
32.37	1587	Hexenyl benzoate <(2E)->
32.44	1588	Hexadecene <1->
32.44	1588	Thujopsan-2 β -ol
32.45	1589	Allo-cedrol
32.45	1589	Allo-hedycaryol
32.45	1589	Elemenone <cis- β ->
32.49	1590	Copaen-4 α -ol <B->
32.50	1590	Diethyl phthalate (plastizer)
32.50	1590	Globulol
32.52	1590	Apofarnesol <(E)-dihydro->
32.58	1592	Helifolen-12-al A <syn-anti-anti>
32.58	1592	Helifolen-12-al B <anti-anti-anti->
32.58	1592	Viridiflorol
32.62	1593	Undecalactone < δ ->
32.63	1593	Carpacin <(E)->
32.66	1594	Salvial-4(14)-en-1-one
32.67	1594	Carotol
32.68	1594	Ethyl dodecanoate
32.70	1595	Cubeban-11-ol
32.70	1595	Elemicin <6-methoxy->
32.70	1595	Mayurone <cis-dihydro->
32.70	1595	Turnerone <ar-dihydro->
32.73	1596	Fokienol
32.85	1599	Longiborneol (=Juniperol)
32.85	1599	Widdrol
32.88	1599	Cinnamaldehyde <hydro->
32.89	1600	Hexadecane <n->
32.89	1600	Rosifoliol
32.91	1600	Cedrol
32.92	1600	Guaiol
32.93	1601	Geranyl 2-methyl butanoate
32.94	1601	Guaia-3,10(14)-diene <9,11-epoxy->
32.95	1601	Bisabolatrien-7-ol <1,3,5->
32.99	1601	Elemenone <trans- β ->
32.99	1602	Ledol
33.00	1602	Isoamyl nerolate
33.00	1602	Tripropionin
33.04	1603	Isobornyl isobutanoate <5-oxy->
33.05	1604	Khusimone
33.08	1604	Sesquithuriferol
33.11	1605	Curzerenone
33.15	1606	Geranyl isovalerate
33.16	1607	Sesquitalvandulol <(Z)->
33.17	1607	Dodecyl acetate
33.17	1607	Eudesmol <5-epi-7-epi- α ->
33.17	1607	Oplophenone < β ->
33.18	1607	Biotone < β ->
33.18	1607	Hillone
33.19	1607	Platyphyllol
33.20	1608	Atlantol < β ->
33.20	1608	Dodecenyl acetate <(2E)->
33.20	1608	Humulene epoxide II
33.22	1608	Naphthalene <2-acetyl->
33.35	1611	Tetradecanal
33.37	1612	Isolongifolanone <cis->
33.39	1612	Biotol < β ->

RT	AI	Common Name
33.42	1613	Ethyl chromone <2->
33.42	1613	Styrene <2,4,6-trimethoxy->
33.46	1614	Isoeugenol acetate <(E)->
33.47	1615	Davanol D1 (isomer 1)
33.48	1615	Himachalene oxide < β ->
33.52	1616	Isomyristicin
33.53	1616	Asarone <(Z)->
33.56	1617	Butyl anthranilate
33.59	1618	Cedrol <epi->
33.59	1618	Isolongifolan-7 α -ol
33.60	1618	Bisaboladien-4-ol <2,(7Z)->
33.60	1618	Cubenol <1,10-di-epi->
33.61	1618	Junenol
33.64	1619	Helifolen-12-al C <anti-syn-syn->
33.64	1619	Helifolen-12-al D <syn-syn-syn->
33.65	1619	Linalool <(Z)-8-hydroxy->
33.66	1620	Dill apiole
33.72	1621	Cedrene epoxide < β ->
33.72	1621	Leptospermone <iso->
33.75	1622	Corocalene < α ->
33.77	1622	Eudesmol <10-epi- γ ->
33.80	1623	Isobutyl cinnamate
33.82	1624	Citronellyl pentanoate
33.83	1624	Silphiperfol-6-en-5-one
33.88	1625	Isolongifolanone <trans->
33.90	1626	Cedren-3-one <2-epi- α ->
33.91	1626	Hexyl phenylacetate
33.92	1626	Benzophenone
33.93	1627	Isomenthone <2-(3-oxobutyl)->
33.95	1627	Cubenol <1-epi->
33.95	1627	Davanol D2 (isomer 2)
34.00	1628	Cedranone <5->
34.02	1629	Leptospermone
34.04	1629	Bremoligenol
34.05	1630	Cedren-9-one < β ->
34.06	1630	Murola-4,10(14)-dien-1 β -ol
34.08	1630	Eudesmol < γ ->
34.10	1631	Gymnomitrene
34.10	1631	Sesquitalvandulol <(E)->
34.13	1632	Acorenol < α ->
34.14	1632	Isoborneol <8-isobutyryloxy->
34.15	1632	Phthalide <3-butylhexahydro->
34.15	1632	Selina-1,3,7(11)-trien-8-one
34.16	1632	Hexenyl phenyl acetate <(3Z)->
34.20	1634	Camphoric acid
34.24	1635	Hexenyl phenyl acetate <(2E)->
34.25	1635	Cadin-4-en-7-ol <cis->
34.28	1636	Gossonorol
34.30	1636	Acorenol < β ->
34.35	1637	Capillin
34.38	1638	Cadinol <epi- α ->
34.40	1639	Caryophylla-4(12),8(13)-dien-5 α -ol
34.40	1639	Caryophylla-4(12),8(13)-dien-5 β -ol
34.41	1639	Heptan-2-one <6-methyl-6-(3-methylphenyl)->
34.42	1639	Aromadendrene <epoxide-allo->
34.42	1639	Cedrenal <1,7-di-epi- α ->

RT	AI	Common Name
34.42	1639	Duprezianen-3-one <2-epi- β ->
34.45	1640	Hinesol
34.46	1640	Murolol <epi- α ->
34.46	1640	Phenyl ethyl hexanoate
34.47	1641	Daucol
34.48	1641	Thujopsanone <3-iso->
34.53	1642	Styrene <2,3,4,6-tetramethoxy->
34.54	1642	Selina-3,11-dien-6 α -ol
34.56	1643	Isobornyl isobutanoate <6-hydroxy->
34.58	1643	Cedren-3-one <2-epi- β ->
34.61	1644	Murolol < α -> (=Torreyol)
34.63	1645	Cubenol
34.68	1646	Desmethoxy enecalin
34.69	1646	Agarospinol
34.71	1647	Khusilal
34.72	1647	Butyl phthalide <3->
34.73	1647	Amyl cinnamaldehyde <(Z)->
34.74	1648	Methyl jasmonate <(Z)->
34.75	1648	Guaia-3,9-dien-11-ol <cis->
34.79	1649	Eudesmol < β ->
34.81	1649	Vulgarone B
34.83	1650	Cedr-8(15)-en-9 α -ol
34.85	1650	Cedr-8(15)-en-10-ol
34.85	1650	Isoamyl geranate
34.87	1651	Dihydro agarofuran <4 α -hydroxy->
34.89	1651	Pogostol
34.91	1652	Eudesmol < α ->
34.91	1652	Himachalol
34.93	1652	Cadinol < α ->
34.94	1653	Dimethoxy,5-vinyl-1,2-benzodioxide <4,6->
34.95	1653	Thujopsanone <3->
34.97	1654	Linalool <1,2-dihydro-8-hydroxy-(2E)->
34.99	1654	Methyl dihydrojasmonate <cis->
35.01	1655	Exaltacin
35.02	1655	Geranyl valerate
35.04	1655	Syringaldehyde
35.06	1656	Citronellyl tiglate <(Z)->
35.07	1656	Valerianol
35.08	1656	Bisabolol oxide B < α ->
35.08	1656	Isobornyl isobutanoate <5-hydroxy->
35.08	1656	Patchouli alcohol
35.09	1657	Atractylone
35.14	1658	Selin-11-en-4 α -ol
35.15	1658	Intermedeol <neo->
35.16	1658	Ageratochromene
35.16	1658	Gymnomitrol
35.20	1660	Calamenen-10-ol <cis->
35.25	1661	Allohimachalol
35.25	1661	Eudesmol <dihydro->
35.29	1662	Eudesmol <7-epi- α ->
35.38	1664	Junicedranone
35.41	1665	Lyal
35.42	1665	Intermedeol
35.45	1666	Caryophyllene <14-hydroxy-(Z)->
35.46	1666	Citronellyl tiglate <(E)->
35.47	1667	Bisabol-11-ol <E->
35.47	1667	Phloracetophenone <2,4-dimethylether->

RT	AI	Common Name	RT	AI	Common Name
35.48	1667	Amyl cinnamaldehyde <(E)->	36.32	1689	Davanol acetate
35.48	1667	Coniferyl alcohol <(Z)->	36.33	1689	Apritone <(Z)->
35.49	1667	Pentadecen-2-one <(6Z)->	36.34	1689	Botrydiol
35.51	1668	Calamenen-10-ol <trans->	36.37	1690	Bergamotol <(Z)- α -trans->
35.51	1668	Hexenyl salicylate <(3Z)->	36.44	1692	Junicedranol
35.51	1668	Turnerone <ar->	36.45	1692	Acorenone
35.52	1668	Dihydroatlantone <(E)-10,11->	36.45	1692	Cuprenen-1-ol<4->
35.53	1668	Atlantone < β ->	36.48	1693	Germacone
35.53	1668	Caryophyllene <14-hydroxy-9-epi-(E)->	36.51	1694	Atlantone <(Z)- γ ->
35.54	1668	Zizanone <epi->	36.56	1695	Cyperotundone
35.60	1670	Bisabolol <epi- β ->	36.59	1696	Geranyl tiglate
35.60	1670	Bulnesol	36.63	1697	Zizanal
35.64	1671	Tetradecanol <n->	36.64	1697	Acorenone B
35.65	1671	Butylidene-phthalide <(3Z)->	36.64	1697	Pentadecanone <2->
35.68	1672	Cedranol <5-iso->	36.68	1698	Deodaron
35.74	1674	Bisabolol < β ->	36.68	1698	Farnesol <(2Z,6Z)->
35.74	1674	Helifolenol A	36.69	1698	Agglomerone
35.74	1674	Santalol <(Z)- α ->	36.72	1699	Himachal-4-en-1 β -ol <11 α H->
35.74	1674	Valeranone	36.72	1699	Nootkatol <epi->
35.75	1674	Hydroxydiphenyl methane <2->	36.73	1699	Sinensal < β ->
35.75	1674	Isobornyl isobutanoate <8-hydroxy->	36.74	1700	Eudesm-7(11)-en-4-ol
35.75	1674	Salicylic acid, hexyl ester	36.74	1700	Heptadecane <n->
35.77	1674	Cadafene <8,9-epoxide>	36.77	1700	Amorpha-4,9-dien-2-ol
35.79	1675	Asarone <(E)->	36.77	1700	Methoxy cinnamic acid <(4E)->
35.80	1675	Andro enecalinol	36.79	1701	Caryophyllene acetate
35.80	1675	Cadalene	36.80	1701	Acetophenone <2,4,6-trimethoxy-3-methyl->
35.80	1675	Khusiol	36.81	1701	Sesquicineol-2-one
35.83	1676	Mustakone	36.82	1702	Calamenen-10-one <10-nor->
35.84	1676	Guai-3,10(14)-dien-11-ol	36.84	1702	Santalol <(Z)-epi- β ->
35.85	1676	Dodecalactone < γ ->	36.85	1703	Tridecenol acetate <(2E)->
35.85	1676	Nerolidyl acetate <(Z)->	36.91	1704	Amorpha-4,9-dien-14-al
35.85	1676	Occidenol	36.91	1704	Dodecalactone < δ ->
35.87	1677	Apiole	36.98	1706	Atlantone <(E)- γ ->
35.87	1677	Foeniculin	36.98	1706	Caryophyllene <14-hydroxy-4,5-dihydro->
35.89	1677	Helifolenol B	36.98	1706	Melaleucol
35.91	1678	Methyl epi-jasmonate <(Z)->	36.98	1706	Propyl chromone <2->
35.95	1679	Khusinol	36.99	1706	Apodophylene
35.97	1680	Elenol acetate	37.04	1708	Apritone <(E)->
36.00	1680	Ishwarone	37.06	1708	Thujopsenal <cis->
36.02	1681	Occidentalol acetate	37.09	1709	Mayurone
36.03	1681	Helifolenol C	37.21	1712	Curcumen-15-al <ar->
36.03	1681	Helifolenol D	37.22	1713	Calamenene <5-hydroxy-cis->
36.05	1682	Methyl dihydro jasmonate <trans->	37.22	1713	Farnesal<(2E,6Z)->
36.06	1682	Amyl cinnamyl alcohol < α ->	37.23	1713	Cedroxide
36.12	1683	Bisabolol <epi- α ->	37.24	1713	Humulene <14-hydroxy- α ->
36.13	1684	Farnesal <(2Z,6Z)->	37.25	1713	Longifolol
36.14	1684	Bisabolone oxide A < α ->	37.25	1713	Nuciferal <(Z)->
36.14	1684	Cedranol <5-neo->	37.27	1714	Farnesol <(2E,6Z)->
36.16	1684	Longiborneol acetate (=Juniperol acetate)	37.28	1714	Nootkatol
36.17	1685	Bisabolol < α ->	37.28	1714	Phenethyl 2-furoate
36.18	1685	Germa-4(15),5,10(14)-trien-1 α -ol	37.31	1715	Farnesal <(2Z,6E)->
36.20	1685	Massoia dodecalactone	37.31	1715	Niranin
36.27	1687	Eudesma-4(15),7-dien-1 β -ol (impure)	37.31	1715	Santalol <(Z)- β ->
36.30	1688	Cedren-13-ol <8->	37.35	1716	Nerolidyl acetate <(E)->
36.31	1688	Farnesol <2,3-dihydro->	37.38	1717	Curcuphenol
36.31	1688	Murol-5-en-4-one <cis-14-nor->	37.39	1717	Atlantone <(Z)- α ->
36.31	1688	Shyobunol			

RT	AI	Common Name
37.39	1717	Butylidene phthalide <(3E)->
37.40	1718	Methyl eudesmate
37.41	1718	Davanone-2-ol < β ->
37.45	1719	Sedanenolide
37.48	1720	Hepta-1,3,5-triene <1-phenyl->
37.55	1722	Celestolide
37.55	1722	Neonidilide
37.57	1722	Methyl tetradecanoate
37.58	1722	Farnesol <(2Z,6E)->
37.62	1724	Cryptomerione
37.63	1724	Nuciferol <(Z)->
37.68	1725	Guaiol acetate
37.70	1726	Tasmanone
37.75	1727	Nuciferol <(E)->
37.78	1728	Cinnamaldehyde <4-hydroxy-3-methoxy->
37.80	1728	Curcumen-12-ol < γ -(Z)->
37.80	1728	Longifolol <iso->
37.84	1730	Vetiselinenol
37.87	1730	Chamazulene
37.92	1732	Sesquilandulyl acetate <(Z)->
37.94	1732	Zerumbone
37.95	1733	Curcumenol
37.95	1733	Isobicyclogermaenol
37.98	1733	Coniferyl alcohol <(E)->
38.02	1734	Eremophilone
38.02	1734	Ligustilide <(Z)->
38.15	1738	Santalol <(E)- β ->
38.17	1739	Oplopanone
38.19	1739	Sesquilandulyl acetate <(E)->
38.21	1740	Isoamyl cinnamate <(E)->
38.21	1740	Mint sulfide
38.22	1740	Farnesol <(2E,6E)->
38.24	1740	Bisabolone <6R,7R->
38.24	1740	Pseudoisoeugenyl isobutyrate <(E)->
38.26	1741	Cedr-8(15)-en-9 α -ol, acetate
38.26	1741	Khusimol
38.30	1742	Farnesol <(2E,6E)->
38.40	1745	Costol < γ ->
38.44	1746	Elemolol <8 α -11->
38.46	1746	Selina-1,3,7(11)-trien-8-one epoxide
38.50	1748	Bisabolol oxide A < α ->
38.51	1748	Cinnamaldehyde <2-hexyl-(E)->
38.52	1748	Bisabolone <6S,7R->
38.64	1751	Cuparene
38.64	1751	Xanthorrhizol
38.70	1753	Isobaeckol
38.75	1754	Curcumen-12-ol < β -(Z)->
38.75	1754	Nuciferol <(E)->
38.78	1755	Amorpha-4,9-diene <7,14-anhydro->
38.78	1755	Sinensal < α ->
38.80	1756	Eremophilone <8-hydroxy-dihydro->
38.81	1756	Ambroxide
38.82	1756	Cinnamyl acetate < α -amyl->
38.90	1759	Benzyl benzoate
38.92	1759	Cyclocolorenone
38.94	1760	Lanceol <(Z)->
38.95	1760	Bisaboladien-12-ol <2,7(14)->

RT	AI	Common Name
38.98	1761	Eupatoriochromene
39.01	1762	Aristolone
39.03	1762	Acoradienol < β ->
39.15	1766	Costol < β ->
39.16	1766	Drimenol
39.16	1766	Sesquiceneol <12-hydroxy-(Z)->
39.19	1766	Curcumen-15-al < γ ->
39.21	1767	Cedryl acetate
39.22	1767	Murolene <14-oxy- α ->
39.22	1767	Valencene <13-hydroxy->
39.26	1768	Bancroftinone
39.26	1768	Bisabolene < β ->
39.31	1770	Squamulone
39.42	1773	Cinnamaldehyde <2-hexyl-(Z)->
39.42	1773	Costol < α ->
39.42	1773	Pentadecanol <n->
39.48	1774	Cyclocolorenone <epi->
39.49	1775	Amorpha-4,7(11)-diene <2 α -hydroxy->
39.50	1775	Cedryl methyl ketone
39.56	1777	Cresol octanoate <p->
39.58	1777	Isobaeckol methyl ether
39.59	1777	Atlantone <(E)- α ->
39.59	1777	Santalol acetate <(Z)- α ->
39.64	1779	Murolene <14-hydroxy- α ->
39.66	1779	Guaiazulene
39.79	1783	Hinesol acetate
39.79	1783	Methyl farnesoate <(2E,6E)->
39.79	1783	Nerolidyl isobutyrate <(Z)->
39.80	1783	Eudesmol acetate < γ ->
39.89	1786	Elem-1,3-dien-8-ol <7-acetoxy->
39.92	1786	Butyl dodecanoate
39.94	1787	Papuanone
39.97	1788	Cedren-13-ol acetate <8->
40.01	1789	Bisabolene < β ->
40.02	1789	Octadecene <1->
40.11	1792	Eudesmol acetate < β ->
40.12	1792	Drimenone
40.14	1792	Acetoxyclemol <8 α ->
40.15	1793	Isovalenceneol <(E)->
40.16	1793	Epoxy-pseudoisoeugenyl isobutyrate
40.20	1794	Bergamotol acetate <(Z)- α -trans->
40.21	1794	Eudesmol acetate < α ->
40.22	1795	Coumarin <4-hydroxy->
40.25	1795	Ethyl tetradecanoate
40.28	1796	Ligustilide <(E)->
40.33	1798	Bisabolol acetate < α ->
40.40	1800	Octadecane <n->
40.42	1800	Isotorquatone
40.48	1802	Bisabolol acetate <epi- α ->
40.49	1802	Pyran-5-one <2,2-dimethyl-7-sec-butyl-2H,5H,pyrano [4,3-b]>
40.52	1803	Cadinene <14-hydroxy- δ ->
40.52	1803	Callitrin
40.53	1803	Benzoin
40.59	1805	Amorpha-4,7(11)-diene <2 α -acetoxy->
40.60	1805	Conglomerone
40.60	1805	Santalol acetate <(Z)-epi- β ->

RT	AI	Common Name	RT	AI	Common Name
40.62	1806	Nootkatone	42.84	1869	Flourensadiol
40.65	1807	Salicylate, 2-ethylhexyl-	42.93	1871	Homoisobaeckeol methyl ether
40.70	1808	Eudesm-11-en-4 α , 6 α -diol	43.03	1874	Hexadecanol <n->
40.74	1809	Pyran-5-one <2,2-dimethyl-7-isobutyl-2H,5H-pyranol[4,3-b]->	43.15	1878	Cubitene
40.80	1811	Chenopodiol < β ->	43.19	1879	Spiroether <(Z)->
40.80	1811	Vetivonic acid	43.20	1879	Laurenene
40.83	1812	Acorone <iso->	43.22	1880	Cyclohexyl anthranilate
40.86	1813	Cryptomeridiol	43.25	1880	Hexenyl cinnamate <(3Z)->
40.94	1815	Torquatone	43.34	1883	Alloevodione
40.97	1816	Butyl chromone <2->	43.45	1886	Farnesyl acetone <(5E,9Z)->
40.98	1816	Farnesoic acid <(2E,6E)->	43.47	1887	Oplopanonyl acetate
41.05	1818	Santalol acetate <(Z)- β ->	43.54	1889	Cedrane-diol <8S,14->
41.06	1818	Trihydroxy benzaldehyde <2,4,6->	43.55	1889	Farnesyl acetone <(5Z,9E)->
41.09	1819	Acorone	43.56	1889	Isobornyl isobutanoate <8-isobutyryloxy->
41.09	1819	Longifolol acetate <iso->	43.58	1890	Chenopodiol-6-acetate < β ->
41.13	1820	Hexenyl anthranilate <(3Z)->	43.59	1890	Spiroether <(E)->
41.16	1821	Farnesyl acetate <(2Z,6E)->	43.68	1893	Dihydroangelicin <2',3',3'-trimethyl-2',3'->
41.20	1822	Vetivone < β ->	43.71	1894	Catalponone
41.21	1823	Khusinol acetate	43.75	1895	Epoxypseudoisoeugenyl 2-methylbutyrate
41.30	1825	Disulfide, diphenyl	43.79	1896	Rimuene
41.30	1825	Nerolidyl isobutyrate <(E)->	43.83	1897	Cedrane diol <8S,13->
41.32	1826	Avocadynofuran	43.92	1900	Nonadecane <n->
41.37	1827	Benzeneacetic acid, 3-methylphenyl ester	43.95	1900	Columellarin <dihydro->
41.42	1828	Isopropyl tetradecanoate	43.97	1901	Laurenene <epi->
41.47	1830	Nuciferol acetate <(Z)->	44.08	1904	Evodione
41.56	1832	Cyclopentadecanolide	44.11	1905	Isopimara 9(11),15 diene
41.68	1836	Ocoidol	44.33	1912	Kuttdiol
41.69	1836	Coumarin <7-hydroxy->	44.37	1913	Farnesyl acetone <(5E,9E)->
41.72	1837	Hillyl acetate	44.38	1913	Phenyl ethyl phenyl acetate <2->
41.80	1839	Eudesm-7(11)-en-4-ol, acetate	44.40	1914	Valencene <11,12-dihydroxy->
41.80	1839	Homoisobaeckeol	44.64	1921	Methyl hexadecanoate
41.82	1840	Pipitzol <o-methyl, α ->	44.68	1922	Tofarene
41.85	1841	Caffeine	44.84	1926	Carissone
41.85	1841	Pseudoisoeugenyl 2-methylbutyrate <(E)->	44.92	1929	Musk ambrette
41.89	1842	Vetivone < α ->	44.97	1930	Dictamine
41.96	1844	Isotorquatone <demethyl->	44.98	1931	Beyerene
41.97	1844	Bisabolatrien-1-ol-4-one <2,7(14),10->	44.98	1931	Procerin
41.97	1844	Isoamyl dodecanoate	45.02	1932	Cuparenic acid
41.97	1844	Ternine <(Z)->	45.05	1933	Isolibaene
42.01	1845	Farnesyl acetate <(2E,6E)->	45.06	1933	Rosa-5,15 diene <ent->
42.03	1846	Phenyl ethyl octanoate	45.07	1933	Cyclohexadecanolide
42.05	1846	Eremophilone <8-hydroxy->	45.21	1937	Cembrene
42.10	1848	Oxofuranocerenophilane <1,10 β -epoxy 6->	45.24	1938	Acetoxycudesman 4 α -ol <11->
42.30	1853	Pipitzol <o-methyl, β ->	45.34	1941	Callitrisin
42.32	1854	Lanceol acetate <(Z)->	45.34	1941	Drimenin
42.36	1855	Chenopodiol < α ->	45.37	1942	Phytol
42.54	1860	Farnesyl acetone <(Z,Z)->	45.52	1946	Isophytol
42.55	1861	Amorpha-4,7-diene <2 α acetoxy-11-methoxy->	45.55	1947	Cembrene A <(3E)->
42.58	1861	Baeekeol	45.59	1948	Pimaradiene
42.65	1863	Thujopsenic acid <cis->	45.70	1952	Columellarin
42.68	1864	Benzyl salicylate	45.92	1958	Geranyl benzoate
42.73	1866	Musk xylol	45.95	1959	Hexadecanoic acid
42.75	1866	Enecealin	45.95	1959	Nootkatin
42.75	1866	Torquatone <demethyl->	45.98	1960	Geranyl linalool <(Z,Z)->
42.79	1867	Santalol acetate <(E)- β ->	45.99	1960	Chenopodiol-6 acetate < α ->
			45.99	1960	Rimuene <tetrahydro->
			46.16	1965	Cembrene A <(3Z)->

RT	AI	Common Name
46.18	1966	Isophyllocladene
46.25	1968	Calitrisin <dihydro->
46.26	1968	Sandaracopimara-8(14),15-diene
46.30	1969	Jensenone
46.34	1970	Isoprenyl cinnamate <(Z)-methyl->
46.42	1973	Dolabradiene
46.45	1974	Ferula lactone I
46.45	1974	Sclarene
46.51	1975	Occidol acetate
46.56	1977	Bifloratriene
46.69	1981	Coumarin <7-hydroxy-4-methyl->
46.80	1984	Musk ketone
46.84	1985	Amorpha-4,7(11)-dien-8-one <2 α -acetoxy->
46.89	1987	Manool oxide
46.90	1987	Geranyl linalool <(E,Z)->
46.92	1987	Eicosene <1->
46.93	1988	Pseudo phytol <(6Z,10Z)->
46.94	1988	Catalponol <epi->
47.06	1992	Stilbene <4-methoxy->
47.09	1992	Ethyl hexadecanoate
47.25	1997	Kaur-15-ene
47.27	1998	Seselin
47.29	1998	Geranyl linalool <(Z,E)->
47.33	2000	Eicosane <n->
47.35	2000	Dolabradiene <13-epi->
47.45	2003	Hexadecyl acetate
47.64	2009	Manool oxide <13-epi->
47.75	2013	Coumarin <7-hydroxy-4,8-dimethyl->
47.82	2015	Ethylene brassylate
47.85	2016	Polygodial
47.86	2016	Phyllocladene
47.90	2018	Juvibione
47.91	2018	Pseudo phytol <(6E,10Z)->
48.03	2022	Abieta-8,12-diene
48.08	2023	Catalponol
48.08	2023	Warburganal
48.09	2024	Isopropyl hexadecanoate
48.16	2026	Geranyl linalool <(E,E)->
48.29	2030	Pseudo phytol <(6Z,10E)->
48.39	2033	Bergaptene <iso->
48.44	2035	Falcarinol <(Z)->
48.65	2042	Stilbene <4-hydroxy->
48.66	2042	Kaurene
48.75	2045	Canellal
49.08	2055	Abietatriene
49.10	2056	Bergaptene
49.11	2056	Manool
49.16	2058	Pseudo phytol <(6E,10E)->
49.20	2059	Manool <13-epi->
49.40	2065	Isoprenyl cinnamate <(E)-methyl->
49.40	2065	Sclareolide
49.60	2072	Isocugenyl benzyl ether <(Z)->
49.76	2077	Octadecanol <n->
50.00	2085	Juvibione <dehydro->
50.08	2087	Abietadiene
50.10	2088	Nookatinol
50.22	2092	Benzyl cinnamate

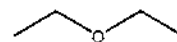
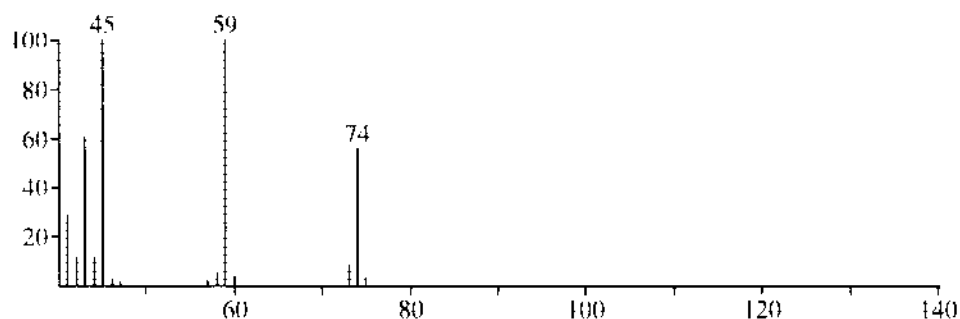
RT	AI	Common Name
50.33	2095	Methyl linoleate
50.47	2100	Heicosane <n->
50.95	2115	Isoprenyl oxycoumarin <7->
50.96	2115	Laurenan-2-one
51.23	2124	Methyl octadecanoate
51.24	2125	Isocugenyl benzyl ether <(E)->
51.28	2126	Phenyl ethyl anthranilate <2->
51.47	2132	Linoleic acid
51.47	2132	Nezukul
51.72	2140	Osthole
51.75	2141	Oleic acid
51.98	2149	Abienol
52.08	2152	Oroselone
52.12	2153	Abieta-(8(14),13(15)-diene
52.26	2158	Incensole
52.76	2174	Grandiflorene
52.90	2179	Phenethyl cinnamate
52.93	2180	Citronellyl anthranilate
53.05	2184	Incensole acetate
53.06	2184	Sandaracopimarinal
53.22	2189	Docosene <1->
53.43	2196	Ethyl octadecanoate
53.50	2198	Ugandensidial
53.53	2199	Catalpalactone
53.54	2200	Docosane <n->
53.65	2203	Santonine < α ->
53.78	2208	Totarol <cis->, methyl ether
53.82	2209	Octadecanol acetate
53.83	2209	Phyllocladanol
53.96	2214	Retene
54.02	2216	Manool oxide <2-keto->
54.04	2217	Geranyl anthranilate
54.07	2218	Phytol acetate <(E)->
54.15	2220	Methyl eperuate
54.21	2222	Sclareol
54.47	2231	Methyl communatate <(Z)->
54.49	2232	Stilbene <3,5-dimethoxy->
54.63	2237	Isopimpinellin
54.63	2237	Manool <7 α -hydroxy->
54.63	2237	Totarol <trans->, methyl ether
54.65	2237	Methyl pimarate
54.75	2241	Decyl anthranilate
54.76	2241	Isocugenyl phenylacetate <(Z)->
55.19	2256	Methyl sandaracopimarate
55.22	2257	Methyl communatate <(E)->
55.47	2265	Larixol
55.58	2269	Sandaracopimarinal
55.74	2274	Abietal, dehydro
55.88	2279	Incensole oxide
55.98	2282	Semperviol
56.24	2291	Labd-7,13-dien-15-ol
56.41	2297	Manool <3 α -hydroxy->
56.42	2297	Isocugenyl phenylacetate <(E)->
56.42	2297	Methyl isopimarate
56.44	2298	Abietal <4-epi->
56.48	2300	Tricosane <n->
56.66	2306	Methyl levopimarate

RT	AI	Common Name
56.77	2310	Isopimarol
56.85	2312	Abieta-7,13-diene-3-one
56.87	2313	Abietal
56.88	2314	Totarol <trans->
56.92	2315	Ferruginol <6,7-dehydro->
57.17	2324	Abietadien-18-ol <8,13->
57.39	2331	Ferruginol <trans->
57.39	2331	Methyl daniellate
57.55	2337	Manool oxide <3 α -14,15-dihydro->
57.65	2341	Methyl dehydroabietate
57.72	2343	Abietol <4-epi->
57.76	2344	Libocedrol
58.18	2359	Manool <3 α -acetoxy->
58.21	2360	Peuceenin, 7-methyl ether
58.21	2360	Torulosol
58.28	2363	Ferruginol acetate <trans->
58.35	2365	Communic acid
58.42	2368	Abietol, dehydro
58.50	2370	Ferruginol <cis->
58.80	2381	Methyl labdanolate
58.91	2385	Methyl abietate
58.96	2387	Methyl nidoresedate
58.96	2387	Methyl strictate
59.05	2390	Heyderiol
59.12	2392	Labd-7,13-dien-15-ol, acetate
59.33	2400	Tetracosane <n->
59.37	2401	Abietol
59.63	2411	Ferruginol acetate <cis->
59.92	2422	Labd-13E-8,15-diol
60.10	2428	Totarol acetate <trans->
60.28	2435	Taxodione <6-deoxy->
60.48	2443	Methyl neoabietate
60.55	2445	Totarol <7 α -hydroxy-trans->
60.84	2456	Ferruginol <6-keto->
61.15	2468	Abietol <neo->
62.00	2500	Pentacosane <n->
62.05	2501	Methyl-7,13,15-abietatrienoate
63.10	2542	Totarolone
63.30	2549	Hinokione
63.50	2557	Hinokienone
64.33	2589	Hinokiol
64.61	2600	Hexacosane
65.36	2629	Sugiol
67.12	2700	Heptacosane
67.83	2729	Resveratrol
69.55	2800	Octacosane
71.78	2900	Nonacosane
74.16	3000	Triacotane
76.35	3100	Untriacontane
78.48	3200	Dotriacontane
79.26	3237	Stigmast-4-en-3-one
80.55	3300	Tritriacontane
82.80	3400	Tetratriacontane

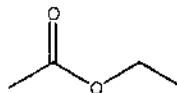
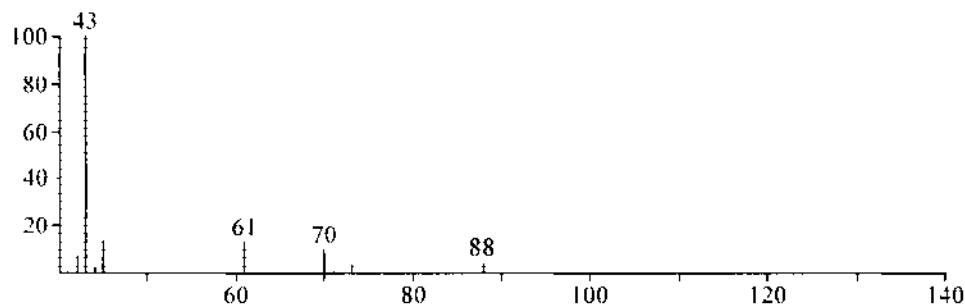
Appendix III

**MASS SPECTRA AND STRUCTURES OF COMPOUNDS
LISTED IN ORDER OF THEIR RETENTION TIME/ ARITHMETIC INDEX ON DB-5**

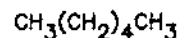
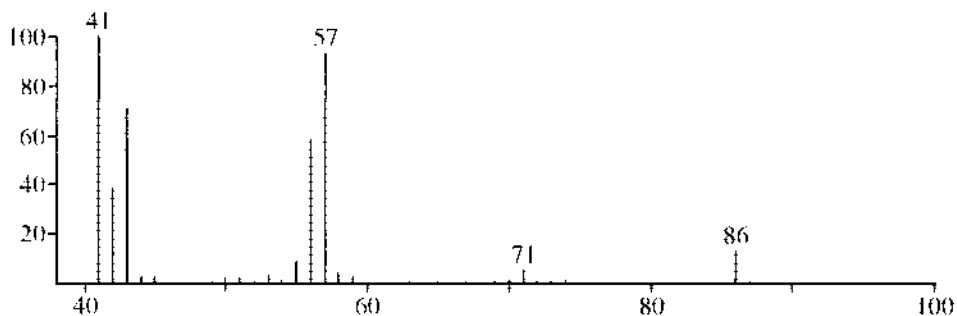
RT: 1.63 AI: 529 KE: 540 **Ethyl ether**
 CAS#: 60-29-7 MF: C₄H₁₀O FW: 74 MSD LIB#: 1561
 CN: ethyl ether
 Synonyms: diethyl ether
 Source: VWR Scientific



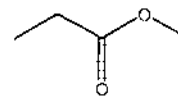
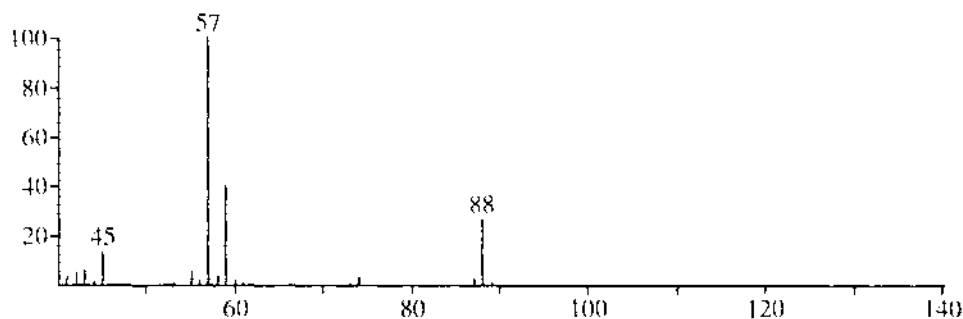
RT: 1.80 AI: 606 KE: 609 **Ethyl acetate**
 CAS#: 141-78-6 MF: C₄H₈O₂ FW: 88 MSD LIB#: 1865
 CN: acetic acid, ethyl ester
 Synonyms: acetic ether; acetidin; ethyl ethanoate
 Source: VWR Scientific; 57.39% *Cananga odorata*, Sepu. 6:11(1988); 6.40% *Bouea macrophylla*; 3.79% *Brassica juncea* (seed)



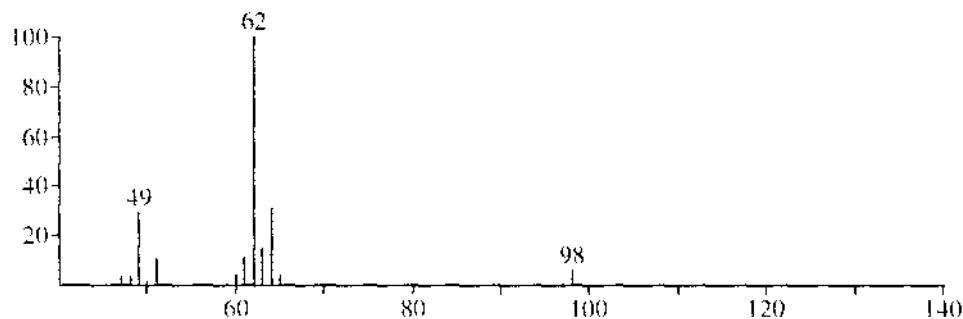
RT: 1.88 AI: 623 KE: 632 **Hexane <n->**
 CAS#: 110-54-3 MF: C₆H₁₄ FW: 86 MSD LIB#: 1430
 CN: n-hexane
 Synonyms: none
 Source: Sigma Chem.; 2.60% *Thymus vulgaris*, Bioflavour 87:327(1988); 0.12% *Artemisia annua*; 0.10% *Apium graveolens*



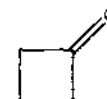
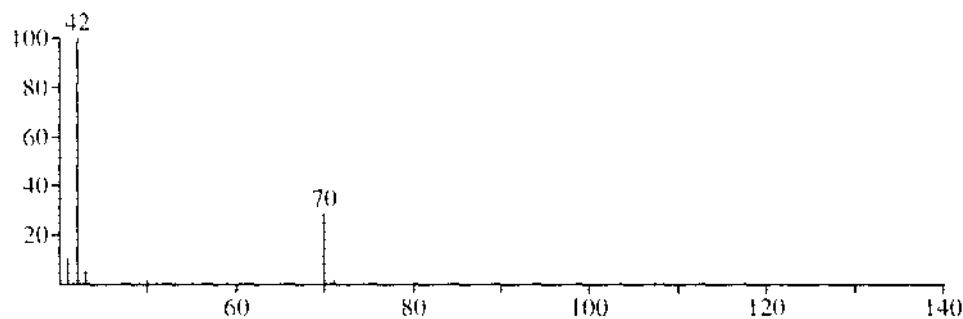
RT: 1.93 AI: 634 KI: 645 **Methyl propanoate**
CAS#: 554-12-1 MF: C₄H₈O₂ FW: 88 MSD LIB#: 1110
CN: propanoic acid, methyl ester
Synonyms: methyl propionate
Source: Aldrich Chem.



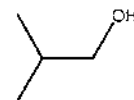
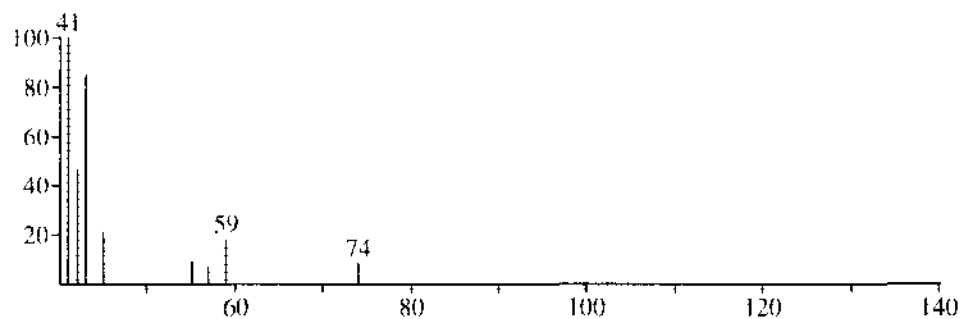
RT: 1.99 AI: 647 KI: 658 **Dichloroethane <1,2->**
CAS#: 107-06-2 MF: C₂H₄Cl₂ FW: 98 MSD LIB#: 591
CN: ethane, 1,2-dichloro-
Synonyms: none
Source: Matheson-Coleman Co.



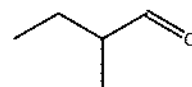
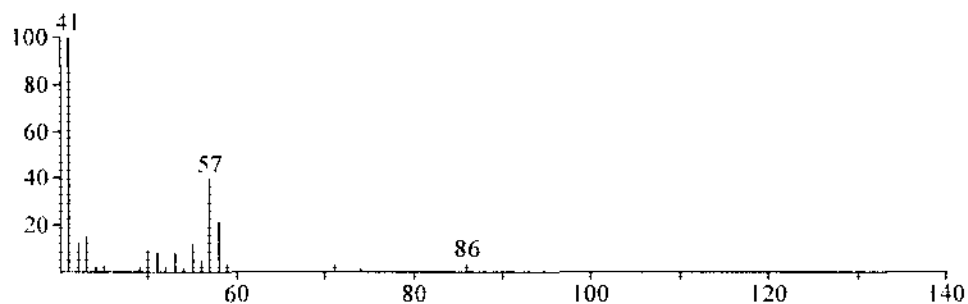
RT: 2.00 AI: 650 KI: 660 **Cyclobutanone**
CAS#: 1191-95-3 MF: C₄H₆O FW: 70 MSD LIB#: 2014
CN: cyclobutanone
Synonyms: none
Source: Aldrich Chem. ex JJ Brophy



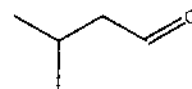
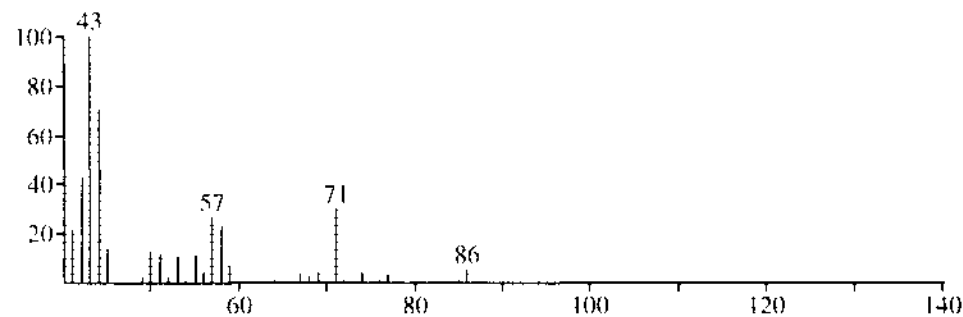
RT: 2.00 AI: 650 KI: 660 **Isobutanol**
CAS#: 78-83-1 MF: C₄H₁₀O FW: 74 MSD LIB#: 1609
CN: 1-propanol, 2-methyl-
Synonyms: isobutyl alcohol
Source: Aldrich Chem.



RT: 2.02 AI: 654 KI: 664 **Butanal <2-methyl->**
CAS#: 96-17-3 MF: C₅H₁₀O FW: 86 MSD LIB#: 1703
CN: butanal, 2-methyl-
Synonyms: none
Source: Aldrich Chem.



RT: 2.04 AI: 658 KI: 668 **Isovaleraldehyde**
CAS#: 590-86-3 MF: C₅H₁₀O FW: 86 MSD LIB#: 1631
CN: butanal, 3-methyl-
Synonyms: isovaleral, isopentanal, butanal <3-methyl->
Source: Aldrich Chem.



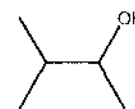
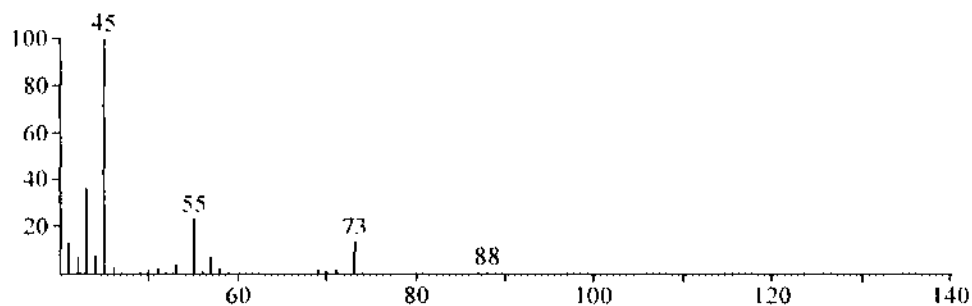
RT: 2.10 AI: 671 KI: 679 **Methyl-2-butanol <3->**

CAS#: 598-75-4 MF: C₅H₁₂O FW: 88 MSD LIB#: 1639

CN: 2-butanol, 3-methyl-

Synonyms: sec-Isoamyl alcohol

Source: Aldrich Chem.



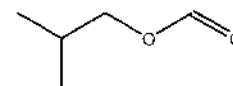
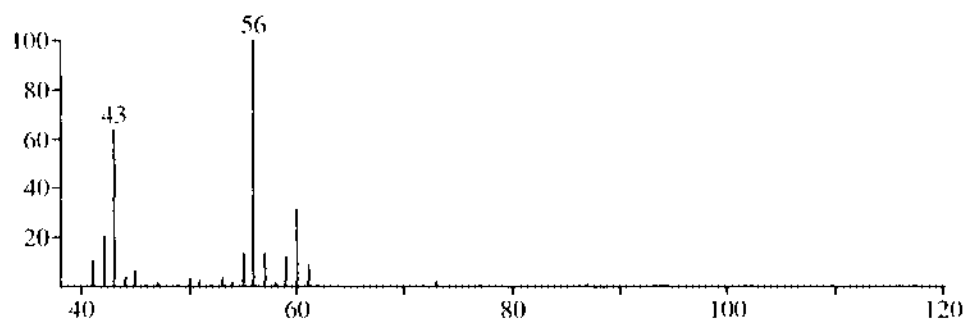
RT: 2.14 AI: 680 KI: 686 **Isobutyl formate**

CAS#: 542-55-2 MF: C₅H₁₀O₂ FW: 102 MSD LIB#: 1613

CN: formic acid, 2-methylpropyl ester

Synonyms: isobutyl methanoate

Source: Aldrich Chem.; 0.06% *Ocimum basilicum*, FFI 6:225(1991)



RT: 2.15 AI: 682 KI: 687 **Pentanone <2->**

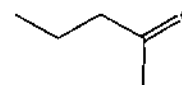
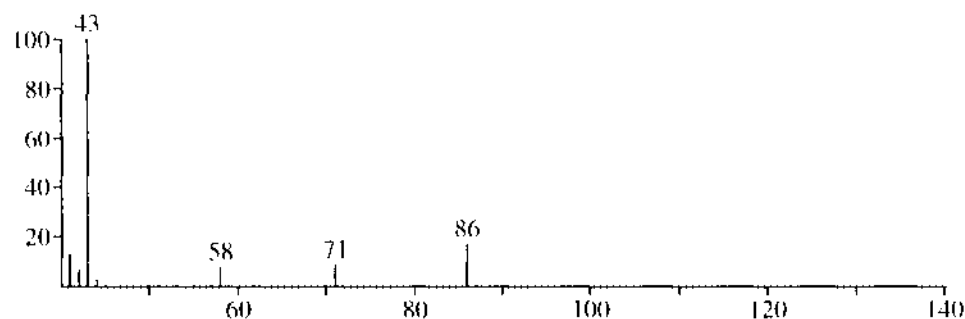
CAS#: 107-87-9 MF: C₅H₁₀O FW: 86 MSD LIB#: 1571

CN: 2-pentanone

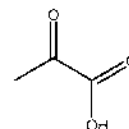
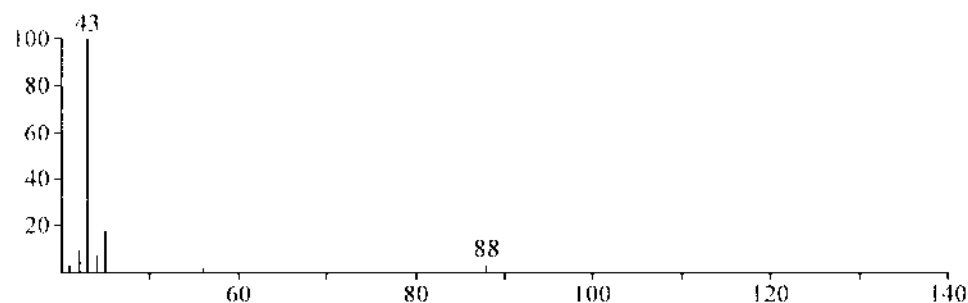
Synonyms: none

Source: Aldrich Chem.; 9.10% *Psidium guajava*, FFI 6:143(1991);

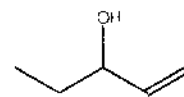
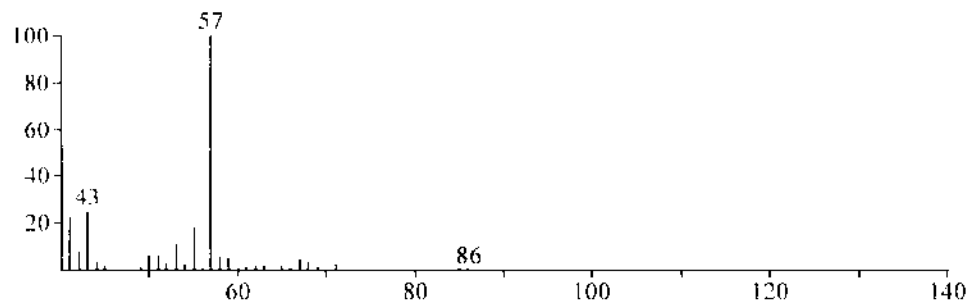
1.85% *Zizyphus jujuba*; 0.30% *Hedyotis diffusa*



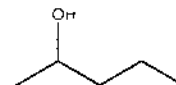
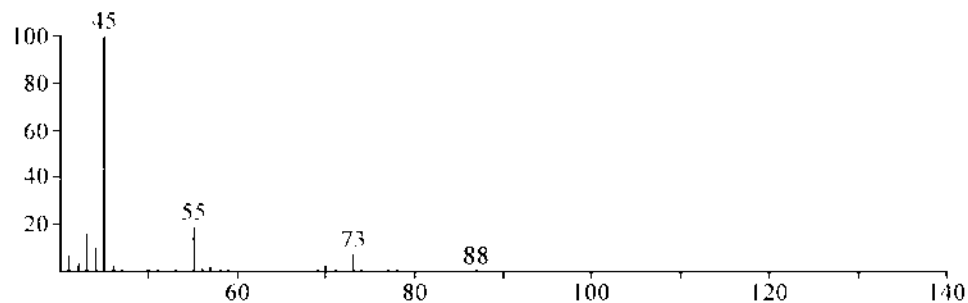
RT: 2.15 AI: 682 KI: 687 **Pyruvic acid**
 CAS#: 127-17-3 MF: C₃H₄O₃ FW: 88 MSD LIB#: 2059
 CN: propanoic acid, 2-oxo-
 Synonyms: pyroacemic acid; acetyl formic acid
 Source: Bedoukian Res.



RT: 2.16 AI: 684 KI: 689 **Penten-3-ol <1->**
 CAS#: 616-25-1 MF: C₅H₁₀O FW: 86 MSD LIB#: 1710
 CN: 1-penten-3-ol
 Synonyms: ethyl vinyl carbinol
 Source: Aldrich Chem.; 0.36% *Comptonia peregrina*, FEI 3:65(1988);
 0.13% *Chloranthus spicatus*; 0.05% *Tilia cordata*



RT: 2.18 AI: 689 KI: 692 **Pentanol <2->**
 CAS#: 6032-29-7 MF: C₅H₁₂O FW: 88 MSD LIB#: 1813
 CN: 2-pentanol
 Synonyms: sec-pentanol, pentyl alcohol <2->
 Source: alcohols mix (2-OHs) ex K-H Kubeczka; 7.00% *Psidium guajava*, FEI 6:143(1991);
 0.85% *Michelia figo*; 0.10% *Narcissus tazetta*



RT: 2.23 AI: 700 KI: 700 **Heptane**

CAS#: 142-82-5 MF: C₇H₁₆ FW: 100 MSD LIB#: 101

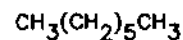
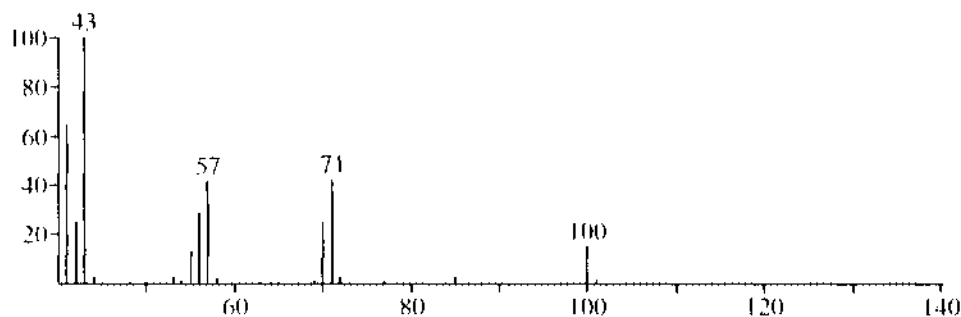
CN: heptane

Synonyms: skellysolve C

Source: alkanes mix, Alltech Assoc.; 3.21% *Cymbidium sinense*, p. 110,

in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong (1993);

1.79% *Elettaria cardamomum* (seed); 0.50% *Carlina acaulis* (root)



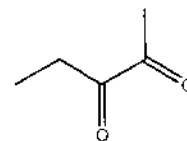
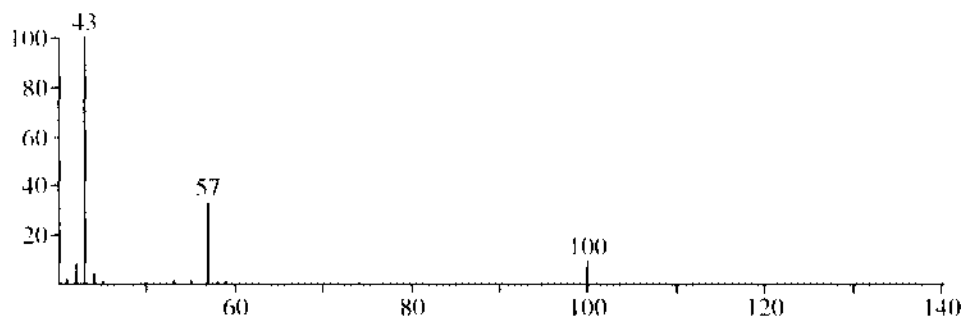
RT: 2.23 AI: 700 KI: 700 **Pentandione <2,3->**

CAS#: 600-14-6 MF: C₅H₈O₂ FW: 100 MSD LIB#: 1247

CN: 2,3-pentanedione

Synonyms: acetylpropionyl

Source: Aldrich Chem.



RT: 2.25 AI: 702 KI: 703 **Ethyl furan <2->**

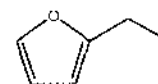
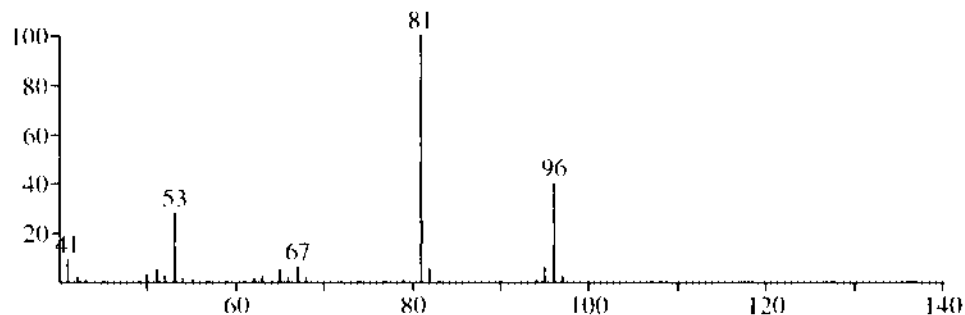
CAS#: 3208-16-0 MF: C₆H₈O FW: 96 MSD LIB#: 2071

CN: furan, 2-ethyl-

Synonyms: none

Source: Bedoukian Res.; 0.05% *Mentha piperita*, Chimika Chronika 9:13 (1980);

0.02% *Ocimum basilicum*; 0.04% *Citrus medica* (leaf)



RT: 2.27 AI: 704 KE: 706 **Pentanal**

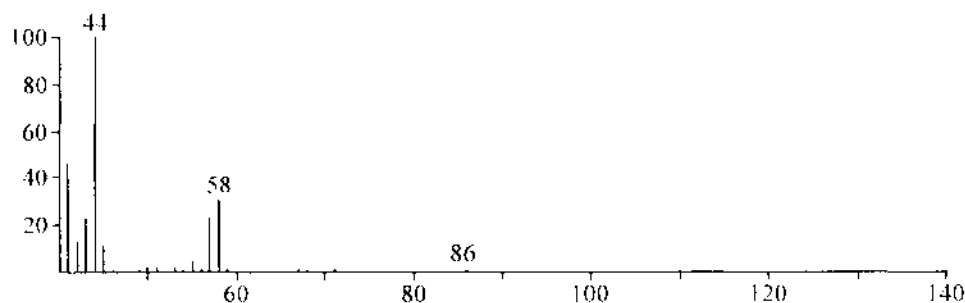
CAS#: 110-62-3 MF: C₅H₁₀O FW: 86 MSD LIB#: 1245

CN: pentanal

Synonyms: valeraldehyde

Source: Aldrich Chem.: 2.25% *Tilia cordata* (blossom flower), 1-EJ 1:57(1986);

2.00% *Mentha arvensis*; 1.02% *Gardenia jasminoides*



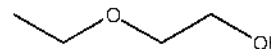
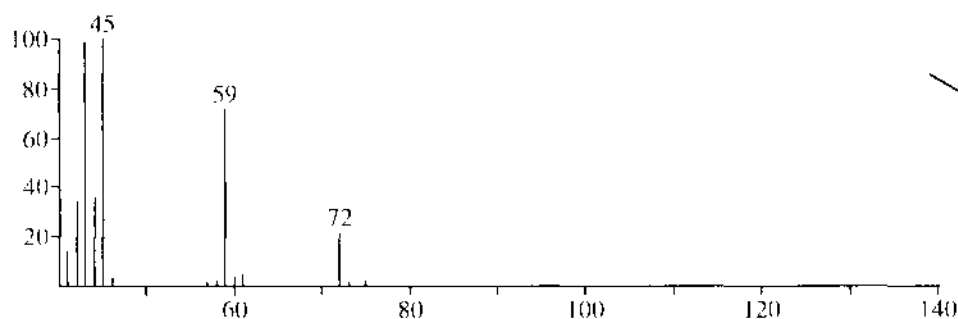
RT: 2.33 AI: 711 KE: 715 **Ethoxy ethanol <2->**

CAS#: 110-80-5 MF: C₄H₁₀O₂ FW: 90 MSD LIB#: 1748

CN: ethanol, 2-ethoxy-

Synonyms: cellusolve, ethyl glycol

Source: Baker Chem.



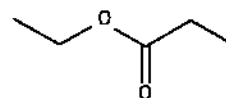
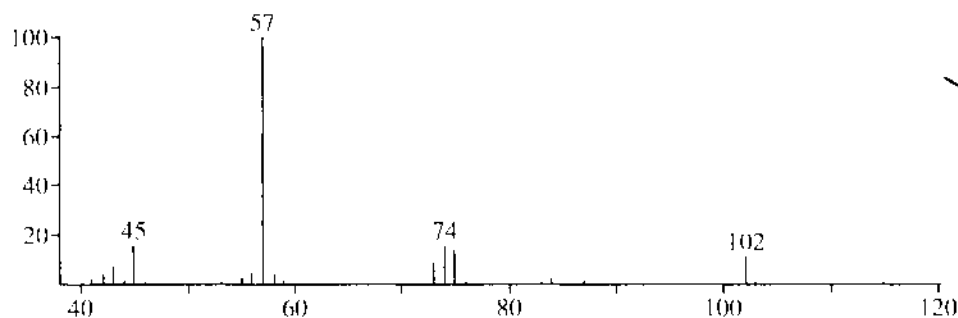
RT: 2.34 AI: 711 KE: 716 **Ethyl propanoate**

CAS#: 105-37-3 MF: C₅H₁₀O₂ FW: 102 MSD LIB#: 75

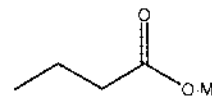
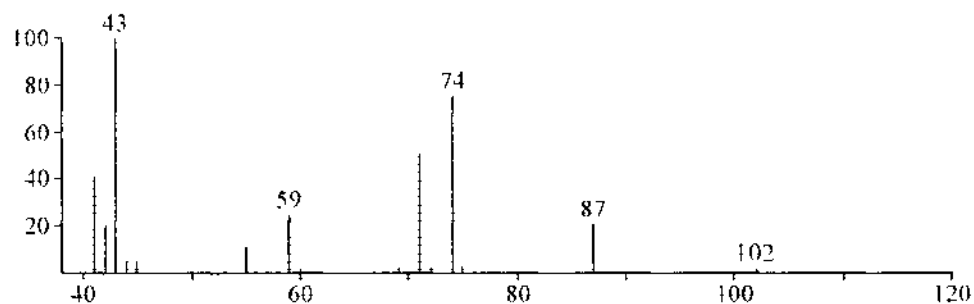
CN: propanoic acid, ethyl ester

Synonyms: ethyl propionate

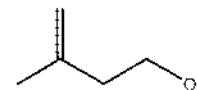
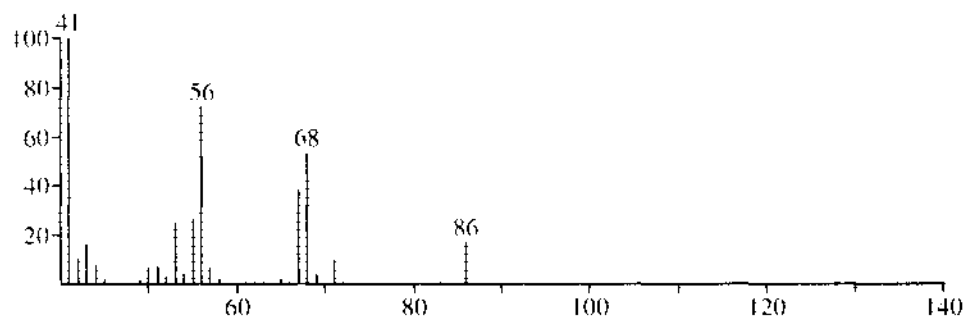
Source: Aldrich Chem.: 0.37% *Artabotrys hexapetalus*, p. 90, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong(1993)



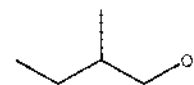
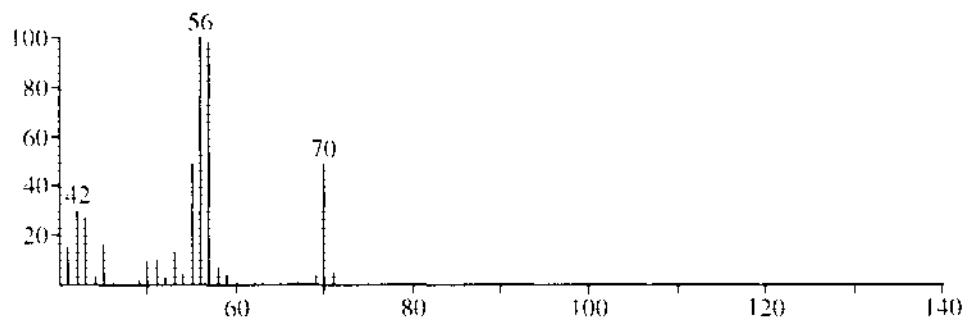
RT: 2.43 AI: 721 KI: 728 **Methyl butanoate**
CAS#: 623-42-7 MF: C₅H₁₀O₂ FW: 102 MSD LIB#: 71
CN: butanoic acid, methyl ester
Synonyms: methyl butyrate
Source: Aldrich Chem.



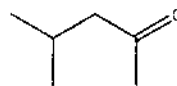
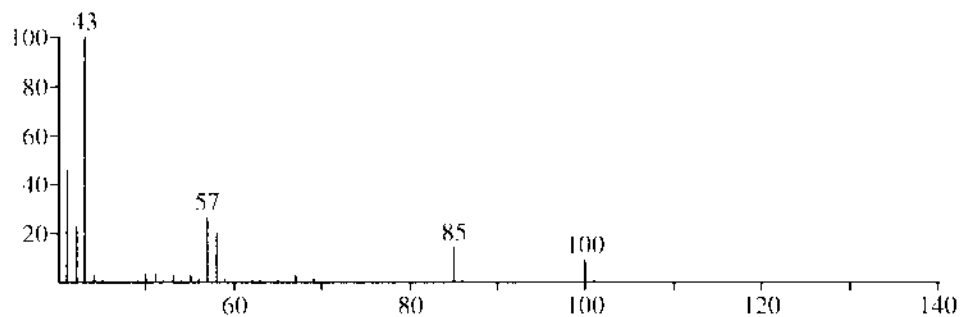
RT: 2.45 AI: 723 KI: 731 **Buten-1-ol <3-methyl-3->**
CAS#: 763-32-6 MF: C₅H₁₀O FW: 86 MSD LIB#: 326
CN: 3-buten-1-ol, 3-methyl-
Synonyms: 3-isopentyl alcohol; isobutenylcarbinol
Source: ref. cpd. ex B. Von Rudloff



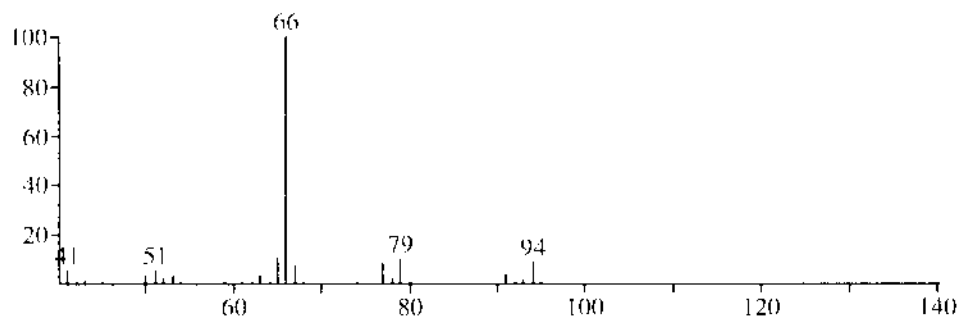
RT: 2.46 AI: 724 KI: 732 **Methyl-1-butanol <2->**
CAS#: 137-32-6 MF: C₅H₁₂O FW: 88 MSD LIB#: 1638
CN: 1-butanol, 2-methyl-
Synonyms: sec-butylcarbinol
Source: Aldrich Chem.



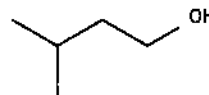
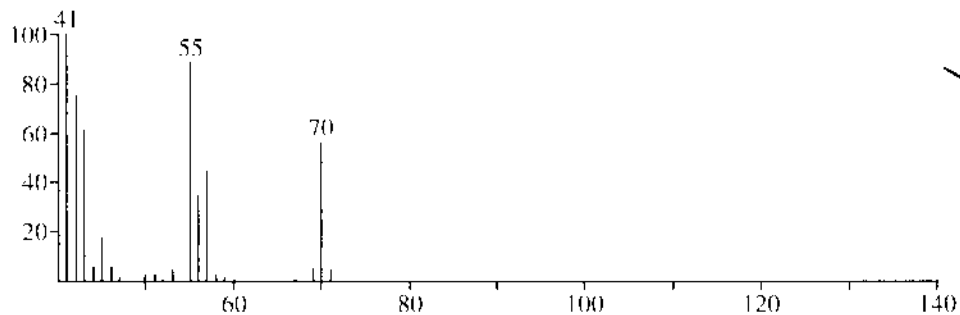
RT: 2.50 AI: 728 KI: 737 **Methyl-2-pentanone <4->**
CAS#: 108-10-1 MF: C₆H₁₂O FW: 100 MSD LIB#: 1707
CN: 2-pentanone, 4-methyl-
Synonyms: isopropyl acetone; hexon; methyl isobutyl ketone; MIBK
Source: Aldrich Chem.



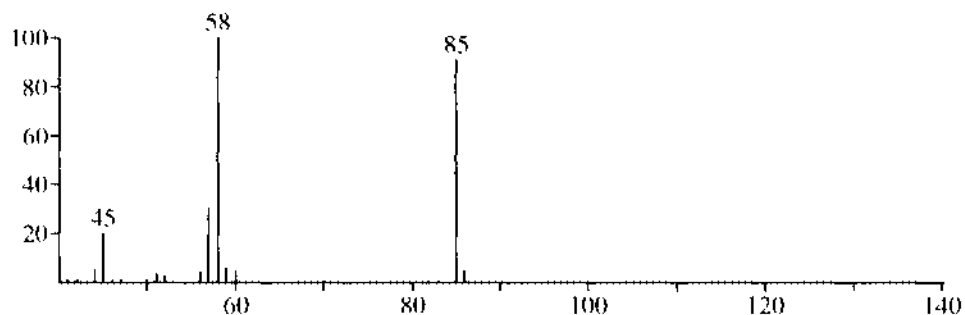
RT: 2.50 AI: 728 KI: 737 **Norbornene**
CAS#: 498-66-8 MF: C₇H₁₀ FW: 94 MSD LIB#: 1186
CN: bicyclo(2.2.1)hept-2-ene
Synonyms: norcamphene; norfenchene
Source: ref. cpd. ex E. von Rudloff



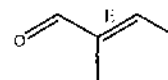
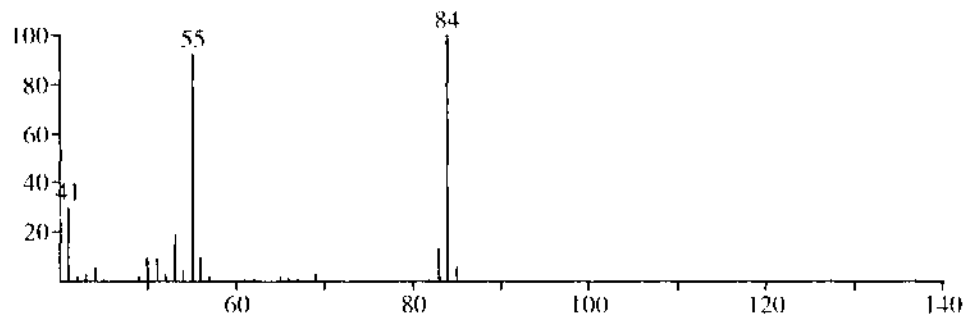
RT: 2.53 AI: 731 KI: 740 **Isopentyl alcohol**
CAS#: 123-51-3 MF: C₅H₁₂O FW: 88 MSD LIB#: 1431
CN: 1-butanol, 3-methyl-
Synonyms: isoamyl alcohol
Source: Aldrich Chem.



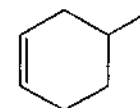
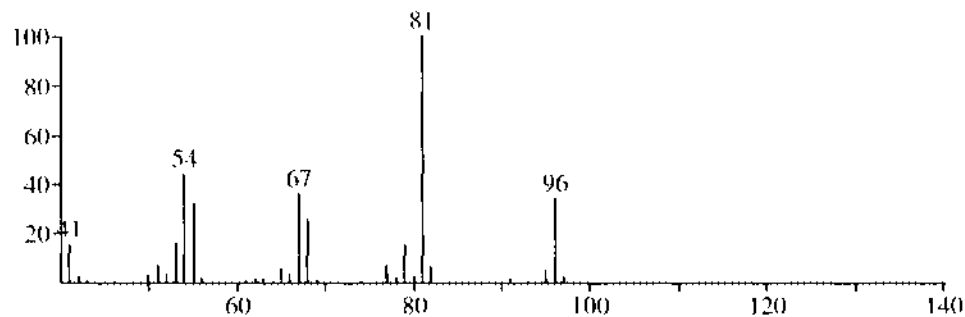
RT: 2.54 AI: 732 KI: 742 **Thiazole**
 CAS#: 288-47-1 MF: C₃H₃N₂S FW: 85 MSD LIB#: 67
 CN: thiazole
 Synonyms: none
 Source: Aldrich Chem.



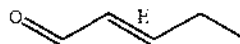
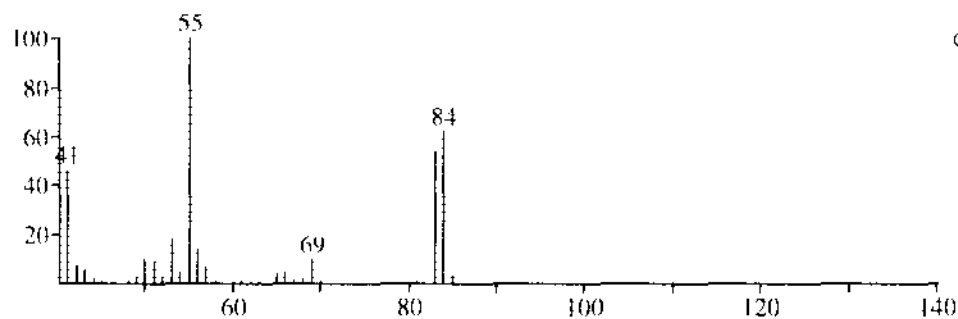
RT: 2.58 AI: 737 KI: 746 **Tiglic aldehyde**
 CAS#: 497-03-0 MF: C₅H₈O FW: 84 MSD LIB#: 1959
 CN: 2-butenal, 2-methyl-, (E)-
 Synonyms: tigaldehyde; crotonaldehyde, 2-methyl-, (E)-
 Source: Bedoukian Res. ex JJ Brophy



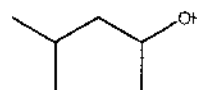
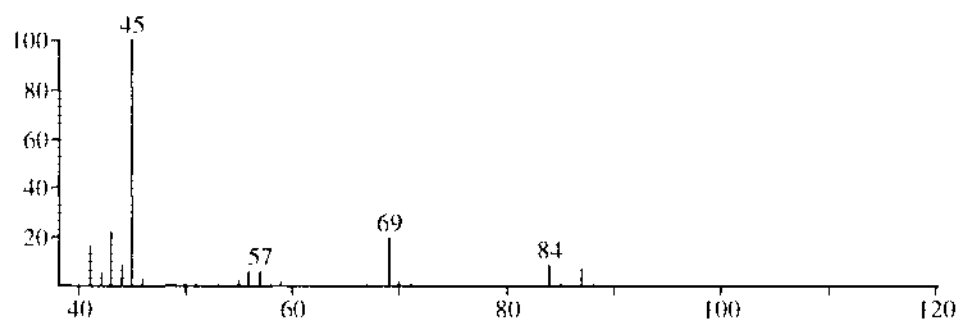
RT: 2.61 AI: 740 KI: 750 **Methyl cyclohexene**
 CAS#: 591-47-9 MF: C₇H₁₂ FW: 96 MSD LIB#: 2072
 CN: cyclohexene, 4-methyl-
 Synonyms: none
 Source: Bedoukian Res.



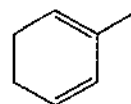
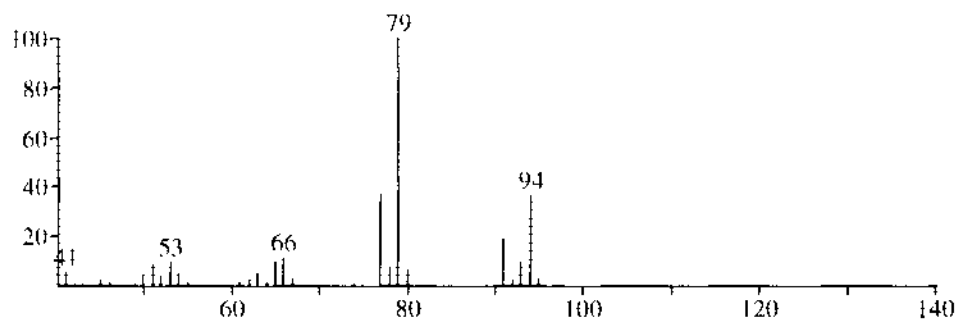
RT: 2.65 AI: 744 KI: 754 **Penten-1-al <(2E)->**
 CAS#: 1576-87-0 MF: C₅H₈O FW: 84 MSD LIB#: 1967
 CN: 2-pentenal, (2E)-
 Synonyms: γ -methyl crotonaldehyde
 Source: Bedoukian Res. ex JJ Brophy



RT: 2.66 AI: 745 KI: 755 **Pentanol <4-methyl-2->**
 CAS#: 108-11-2 MF: C₆H₁₄O FW: 102 MSD LIB#: 2017
 CN: 2-pentanol, 4-methyl-
 Synonyms: 3-MIC; metilamil alcohol; isobutylmethylcarbinol
 Source: ref. cpd. ex JJ Brophy



RT: 2.81 AI: 760 KI: 770 **Cyclohexadiene <2-methyl-1,3->**
 CAS#: 1489-57-2 MF: C₇H₁₀ FW: 94 MSD LIB#: 2199
 CN: 1,3-cyclohexadiene, 2-methyl-
 Synonyms: dihydrotoluene, 3,4-
 Source: Bedoukian Res.



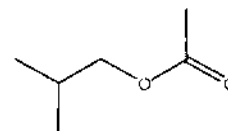
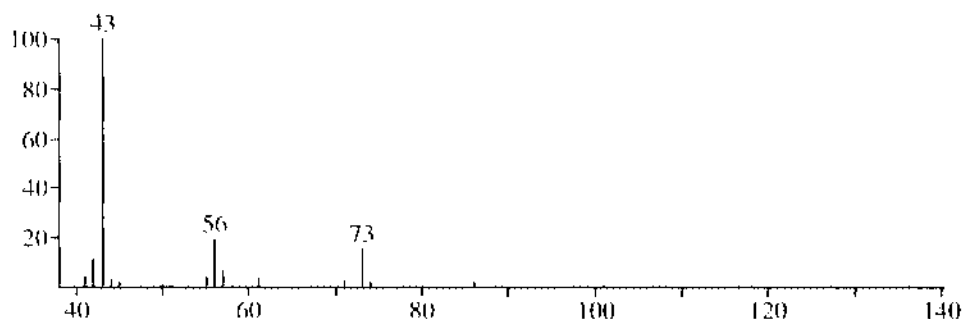
RT: 2.81 AI: 761 KI: 770 **Isobutyl acetate**

CAS#: 110-19-0 MF: C₆H₁₂O₂ FW: 116 MSD LIB#: 1607

CN: acetic acid, 2-methylpropyl ester

Synonyms: isobutyl ethanoate

Source: Aldrich Chem.: 0.01% *Anthemis nobilis*, Proc. 11th Intl. Cong. Ess. Oils, New Delhi, India 4:207(1989)



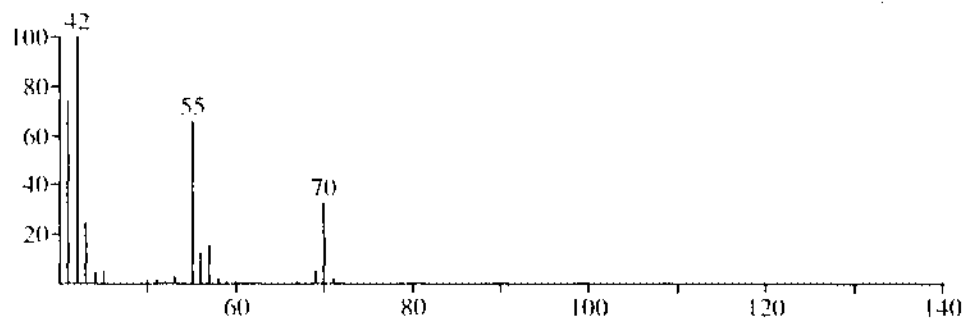
RT: 2.82 AI: 762 KI: 771 **Pentanol**

CAS#: 71-41-0 MF: C₅H₁₂O FW: 88 MSD LIB#: 1248

CN: 1-pentanol

Synonyms: amyl alcohol

Source: Aldrich Chem. ex Art Tucker: 0.60% *Brassica juncea*, Nippon Noge., Kaishi 54(#2):99(1980); 0.50% *Coridoroctymus capitatus*; 0.50% *Psidium guajava*



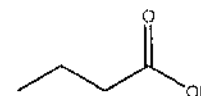
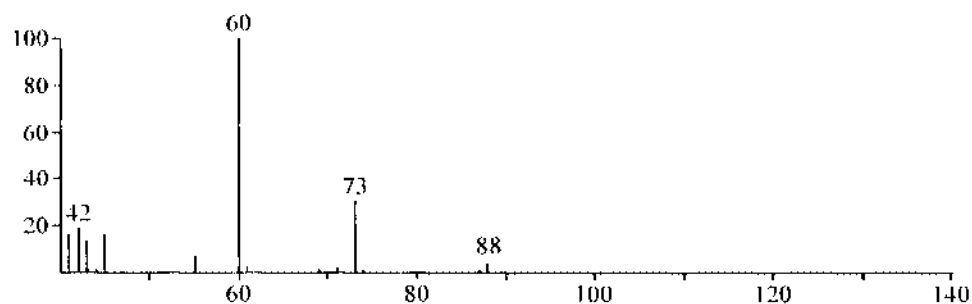
RT: 2.83 AI: 763 KI: 772 **Butanoic acid**

CAS#: 107-92-6 MF: C₄H₈O₂ FW: 88 MSD LIB#: 2069

CN: butanoic acid

Synonyms: butyric acid

Source: Bedoukian Res.



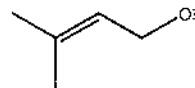
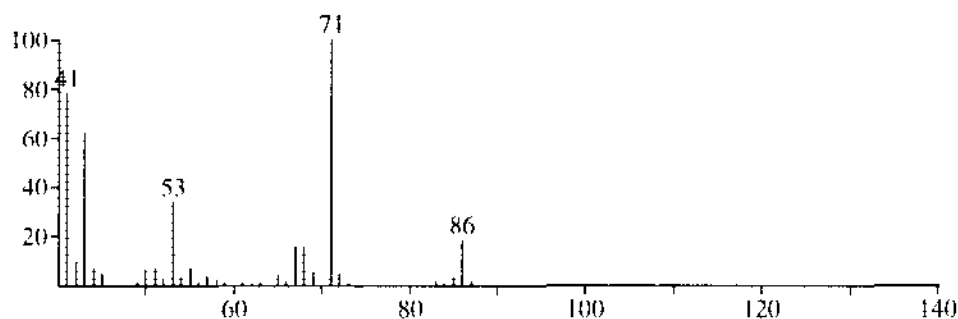
RT: 2.85 AI: 765 K1: 773 **Buten-1-ol <3-methyl-2->**

CAS#: 556-82-1 MF: C₅H₁₀O FW: 86 MSD LIB#: 325

CN: 2-buten-1-ol, 3-methyl-

Synonyms: dimethylallyl alcohol; prenol; 3-methylcrotyl alcohol; prenyl alcohol

Source: ref. epds. ex E. von Rudloff



RT: 2.85 AI: 765 K1: 773 **Pentenol <(2Z)->**

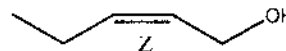
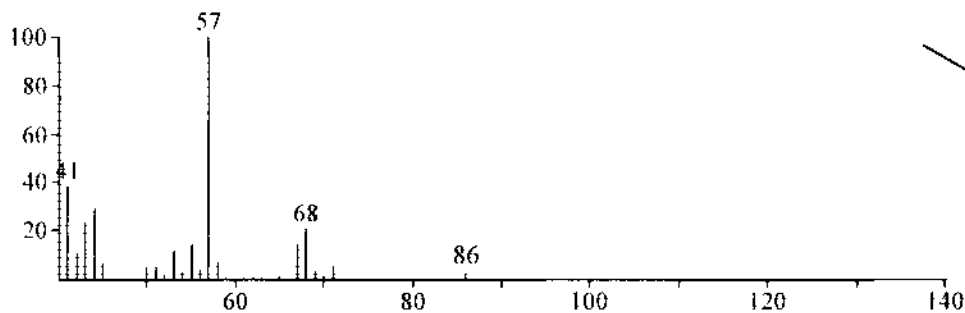
CAS#: 1576-95-0 MF: C₅H₁₀O FW: 86 MSD LIB#: 1250

CN: 2-penten-1-ol, (Z)-

Synonyms: none

Source: Aldrich Chem. ex Art Tucker; 1.07% *Spondias cytherea*, FFJ 10:375(1994);

0.30% *Lawsonia inermis*; 0.30% *Angelica archangelica* (seed)



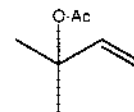
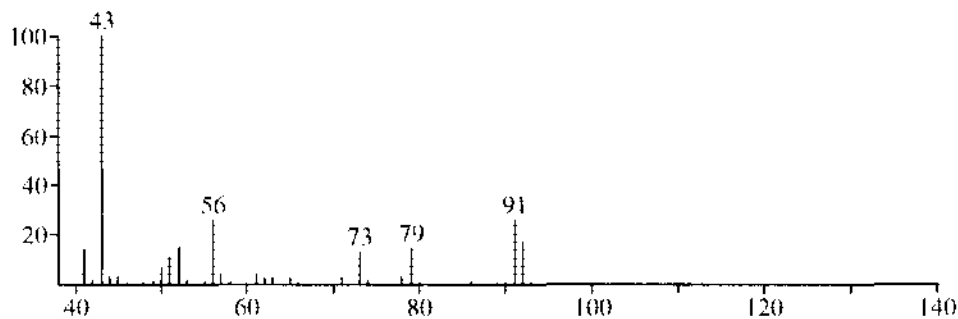
RT: 2.88 AI: 769 K1: 776 **Buten-2-ol acetate <2-methyl-3->**

CAS#: 24509-88-4 MF: C₇H₁₂O₂ FW: 128 MSD LIB#: 324

CN: 3-buten-2-ol, 2-methyl-, acetate

Synonyms: dimethylallyl acetate(1,1); dimethylvinylcarbonyl acetate

Source: acetylation of buten-2-ol, 2-methyl-3-(5815)



RT: 2.88 AI: 769 KI: 776 **Hexen-3-ol <1->**

CAS#: 4798-44-1 MF: C₆H₁₂O FW: 100 MSD LIB#: 1948

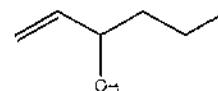
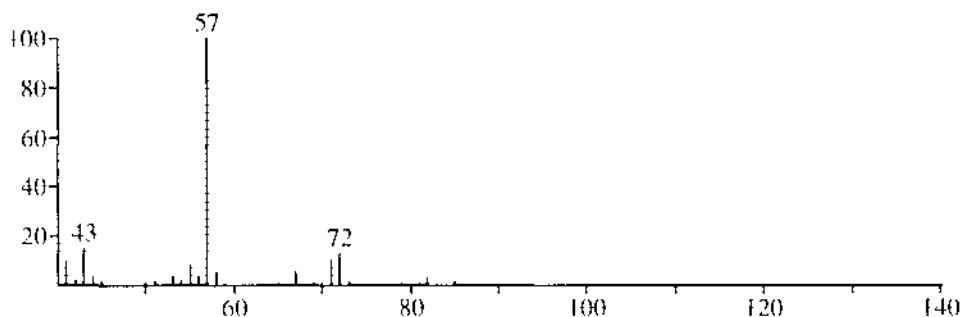
CN: 1-hexen-3-ol

Synonyms: propylvinylcarbinol

Source: Bedoukian Res. ex H Brophy: 6.07% *Psidium guajava*.

p. 221. in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong(1993);

4.00% *Annonum pycholinatum*; 1.17% *Jasminum officinale*



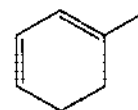
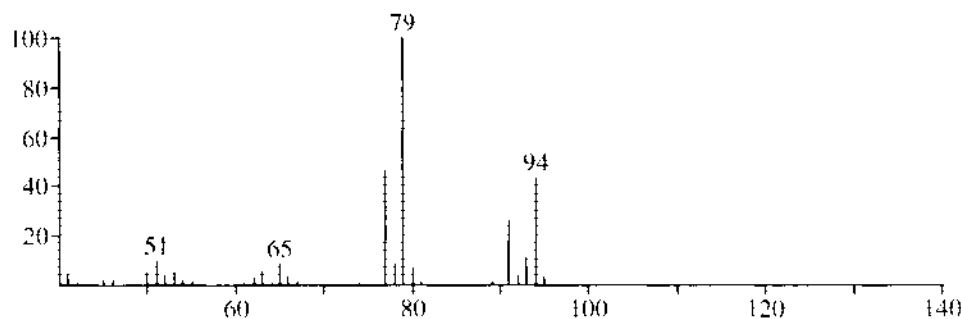
RT: 2.90 AI: 771 KI: 778 **Cyclohexadiene <1-methyl-1,3->**

CAS#: 1489-56-1 MF: C₇H₁₀ FW: 94 MSD LIB#: 2200

CN: 1,3-cyclohexadiene, 1-methyl-

Synonyms: dihydrotoluene, 2,3-

Source: Bedoukian Res.



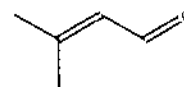
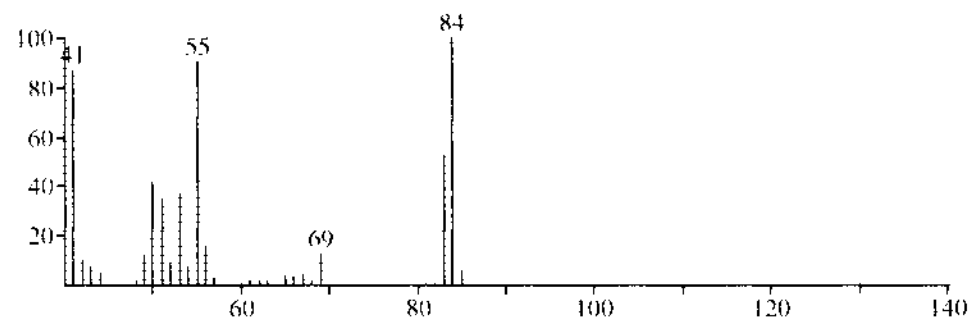
RT: 2.97 AI: 778 KI: 784 **Methyl-2-butenal <3->**

CAS#: 107-86-8 MF: C₅H₈O FW: 84 MSD LIB#: 1640

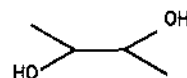
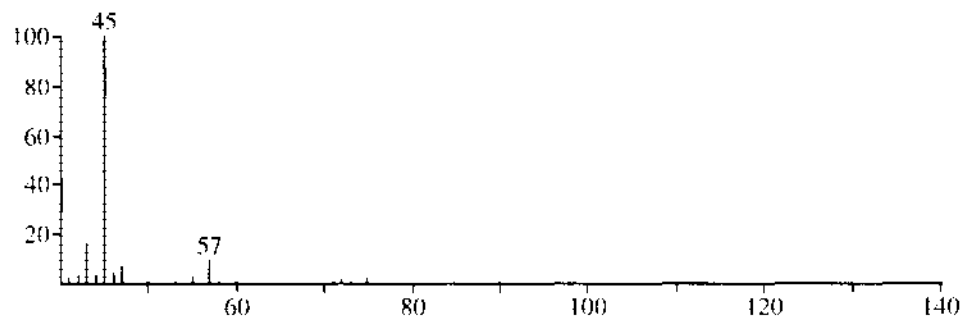
CN: 2-butenal, 3-methyl-

Synonyms: Sececialdehyde, crotonaldehyde<3-methyl->, prenal

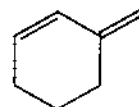
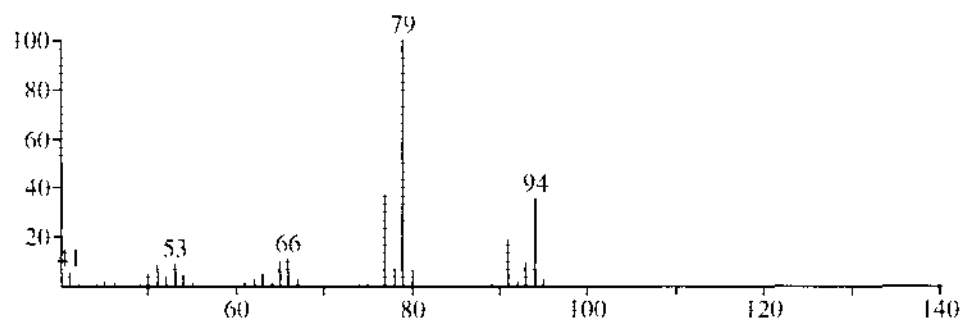
Source: Aldrich Chem.



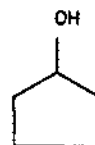
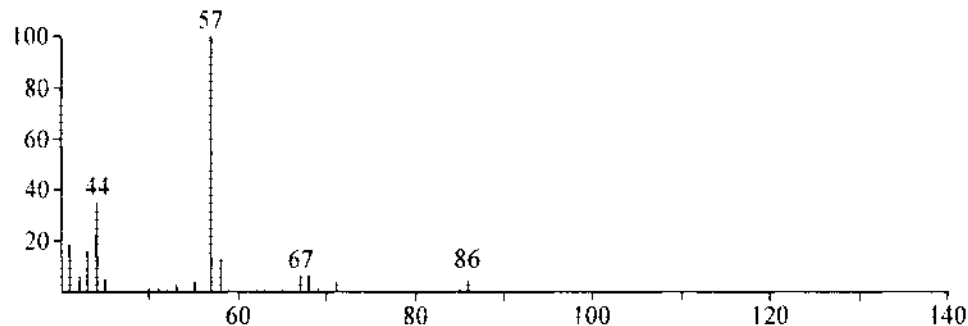
RT: 3.03 AI: 785 KI: 789 **Butanediol <2,3->**
 CAS#: 513-85-9 MF: C₄H₁₀O₂ FW: 90 MSD LIB#: 322
 CN: 2,3-butanediol
 Synonyms: 2,3-butylene glycol; dimethylethylene glycol
 Source: Fluka ex Art Tucker; 0.01% *Jasminum officinale* (absolute),
 J. Agric. Food Chem. 31:558(1985)



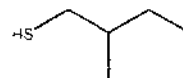
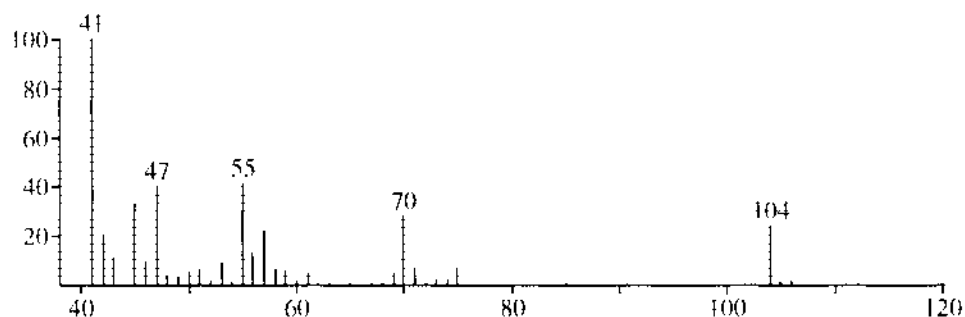
RT: 3.03 AI: 785 KI: 789 **Cyclohexene <3-methylene->**
 CAS#: 1888-90-0 MF: C₇H₁₀ FW: 94 MSD LIB#: 2201
 CN: cyclohexene, 3-methylene-
 Synonyms: methylene cyclohexene, 3-
 Source: Bedoukian Res.



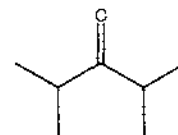
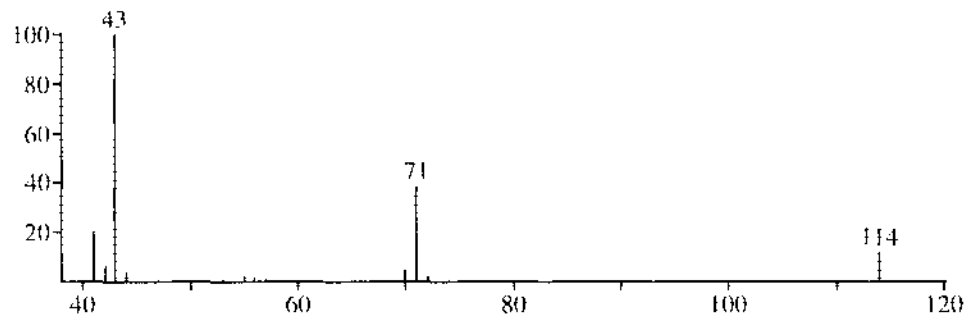
RT: 3.04 AI: 786 KI: 790 **Cyclopentanol**
 CAS#: 96-41-3 MF: C₅H₁₀O FW: 86 MSD LIB#: 539
 CN: cyclopentanol
 Synonyms: hydrocyclopentane
 Source: Fluka Chem, ex Art Tucker



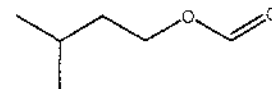
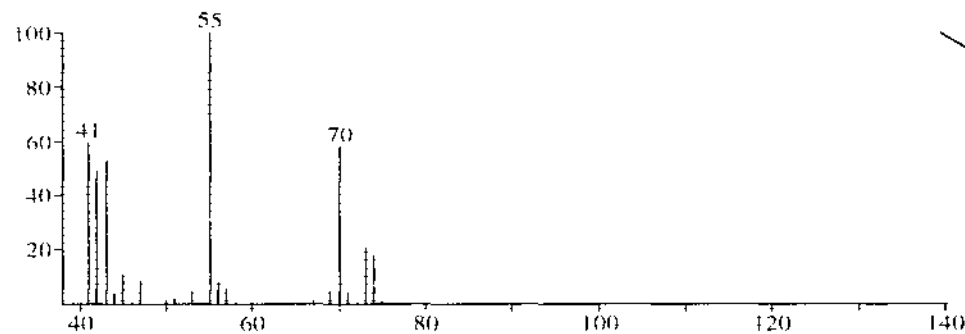
RT: 3.05 AI: 787 KE: 790 **Butanethiol, 2-methyl-**
 CAS#: 1878-18-8 MF: C₅H₁₂S FW: 104 MSD LIB#: 1702
 CN: 1-butanethiol, 2-methyl-
 Synonyms: none
 Source: Aldrich Chem.



RT: 3.06 AI: 788 KE: 791 **Dimethyl-3-pentanone <2,4->**
 CAS#: 565-80-0 MF: C₇H₁₄O FW: 114 MSD LIB#: 2007
 CN: 3-pentanone, 2,4-dimethyl-
 Synonyms: isobutyronone; isopropyl ketone; disopropyl ketone
 Source: Aldrich Chem. ex JJ Brophy



RT: 3.06 AI: 788 KE: 791 **Isopentyl formate**
 CAS#: 110-45-2 MF: C₆H₁₂O₂ FW: 116 MSD LIB#: 872
 CN: 1-butanol, 3-methyl-, formate
 Synonyms: isoamyl formate; isoamyl methanoate; isopentyl methanoate
 Source: Aldrich Chem.



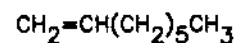
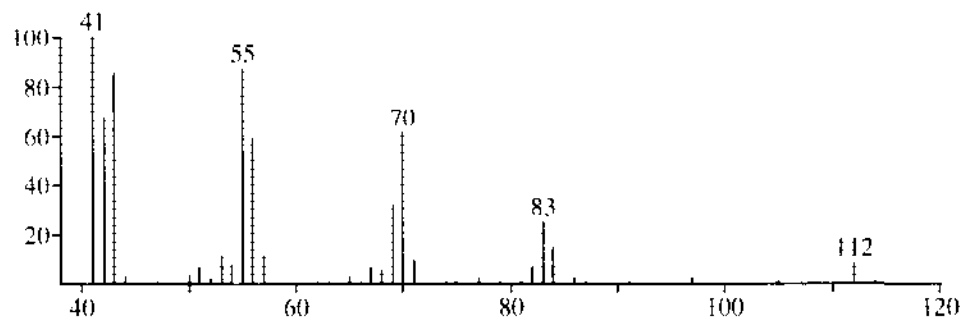
RT: 3.06 AI: 788 KI: 791 **Octene <1->**

CAS#: 111-66-0 MF: C₈H₁₆ FW: 112 MSD LIB#: 1213

CN: octene (1-)

Synonyms: caprylene

Source: ref. epd. ex E. von Rudloff; 0.20% *Artemisia absinthum*, Z. Naturforsch. 36c:369(1981)



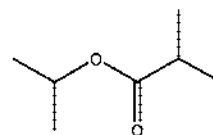
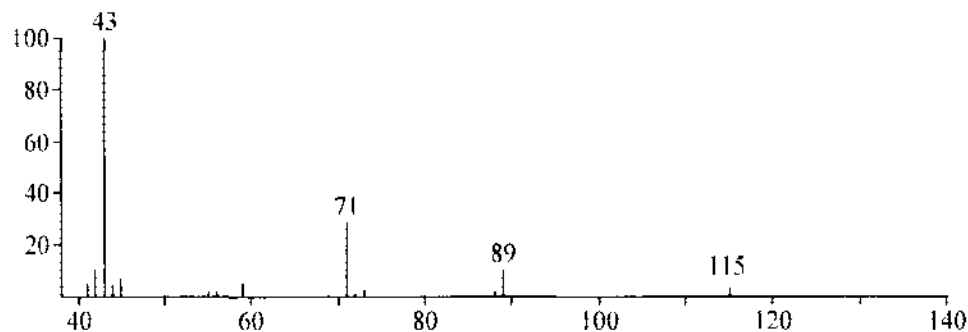
RT: 3.08 AI: 790 KI: 793 **Isopropyl isobutyrate**

CAS#: 617-50-5 MF: C₇H₁₄O₂ FW: 130 MSD LIB#: 1621

CN: propanoic acid, 2-methyl-, 1-methylethyl ester

Synonyms: isobutyric acid, isopropyl ester

Source: Aldrich Chem.: 0.29% *Passiflora edulis*, p. 220, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong (1993); 0.02% *Ruta chalapensis*



RT: 3.10 AI: 792 KI: 794 **Hexenal <(3E)->**

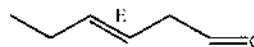
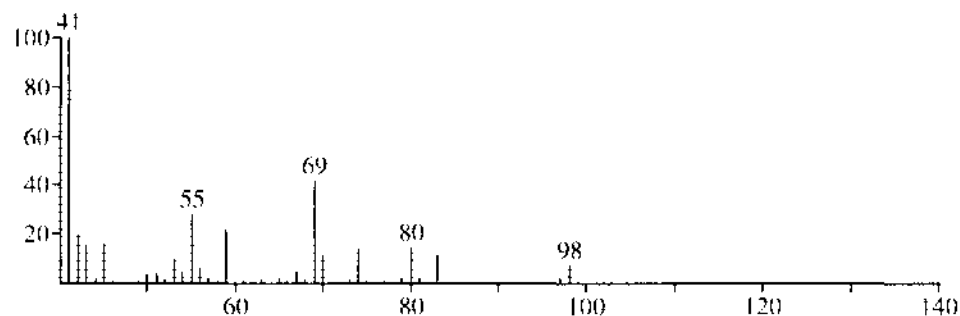
CAS#: 69112-21-6 MF: C₆H₁₀O FW: 98 MSD LIB#: 1975

CN: 3-hexenal, (3E)-

Synonyms: trans-3-hexenal

Source: Bedoukian Res. ex JJ Brophy; 0.43% *Psidium guajava*, FEJ 6:143(1991);

0.01% *Salvia officinalis*



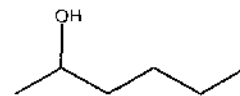
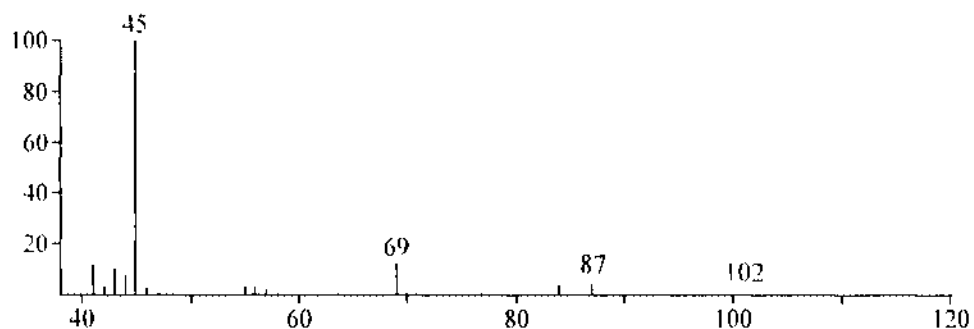
RT: 3.14 AI: 796 KI: 797 **Hexanol <2->**

CAS#: 626-93-7 MF: C₆H₁₄O FW: 102 MSD LIB#: 1814

CN: 2-hexanol

Synonyms: sec-hexyl alcohol

Source: alcohols mix (2-OHs) ex K-H Kubezka



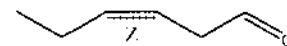
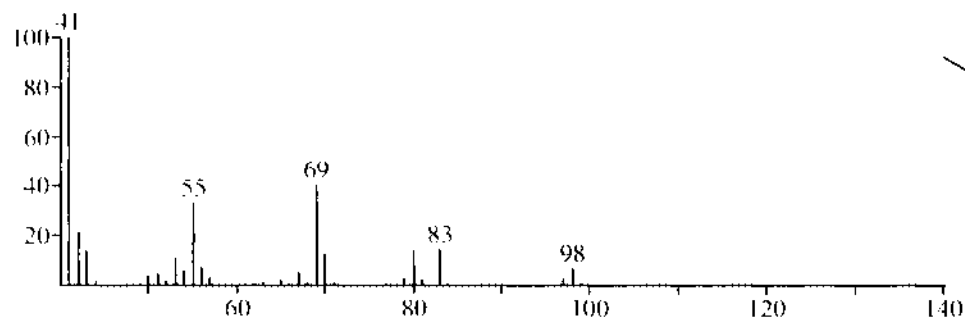
RT: 3.15 AI: 797 KI: 798 **Hexenal <(3Z)->**

CAS#: 6789-80-6 MF: C₆H₁₀O FW: 98 MSD LIB#: 2057

CN: 3-hexenal(3Z)-

Synonyms: hexenal, cis-3-

Source: Bedoukian Res.; 0.83% *Bouea macrophylla*, JFOR 8:99(1996); 0.30% *Psidium guajava*



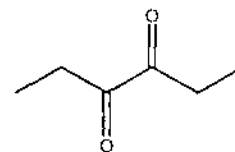
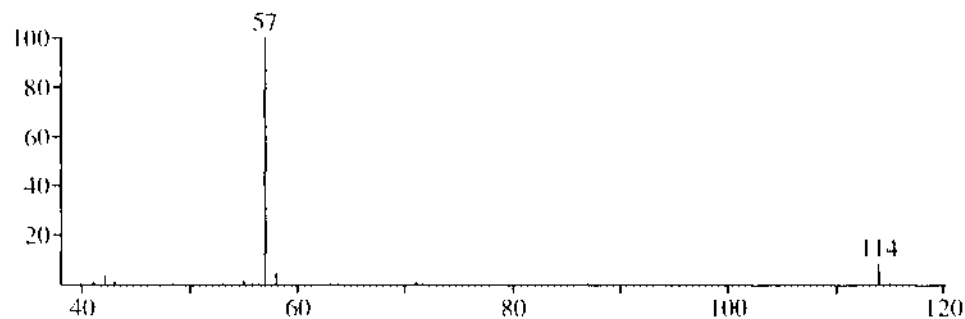
RT: 3.17 AI: 800 KI: 800 **Hexanedione <3,4->**

CAS#: 4437-51-8 MF: C₆H₁₀O₂ FW: 114 MSD LIB#: 800

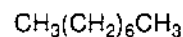
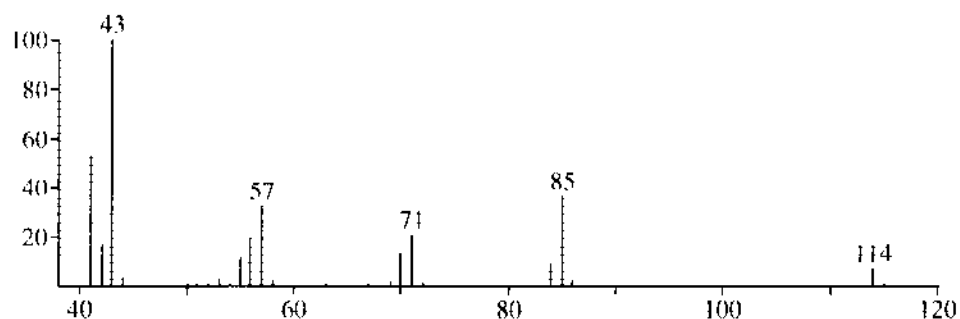
CN: 3,4-hexanedione

Synonyms: biacetyl

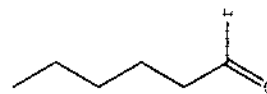
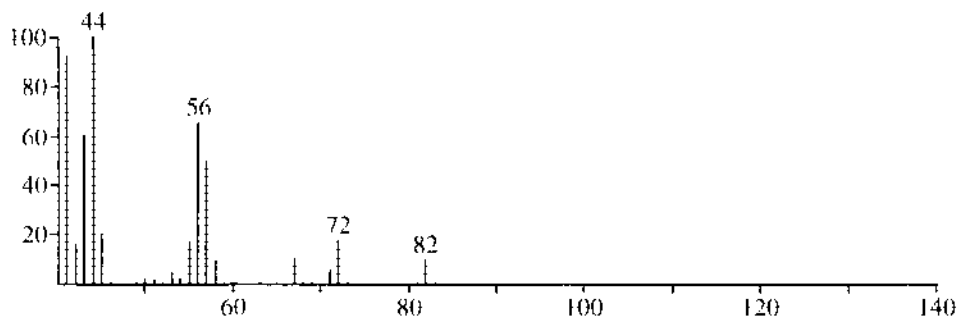
Source: Aldrich Chem. ex Art Tucker



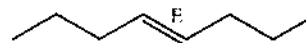
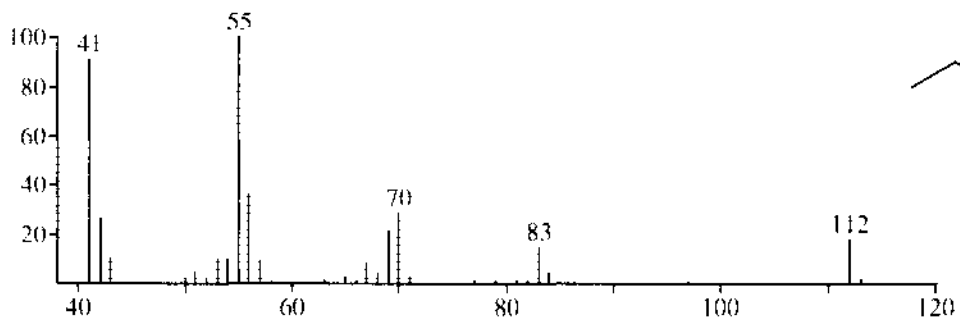
RT: 3.17 AI: 800 KI: 800 **Octane <n>**
CAS#: 111-65-9 MF: C₈H₁₈ FW: 114 MSD LIB#: 87
CN: octane
Synonyms: none
Source: ref. cpd. ex E. von Rudloff



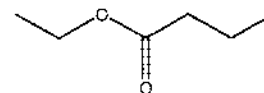
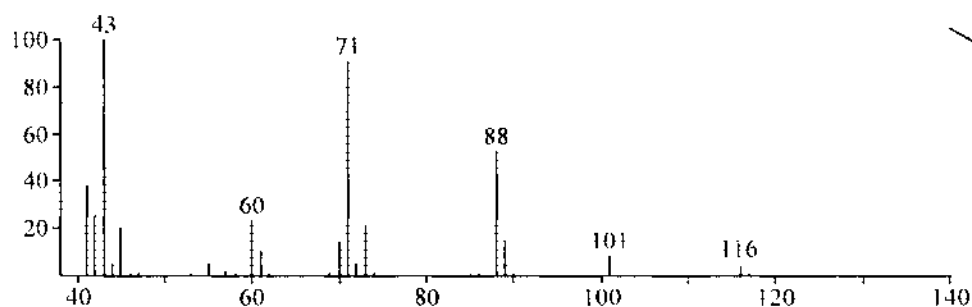
RT: 3.19 AI: 801 KI: 801 **Hexanal**
CAS#: 66-25-1 MF: C₆H₁₂O FW: 100 MSD LIB#: 799
CN: hexanal
Synonyms: caproaldehyde
Source: ref. cpd. ex E. von Rudloff; 14.88% *Pyrus serotina* (Asian), JEOR 4:645(1992);
3.37% *Spondias cytherea*; 2.97% *Psidium guajava*



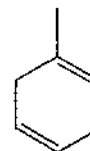
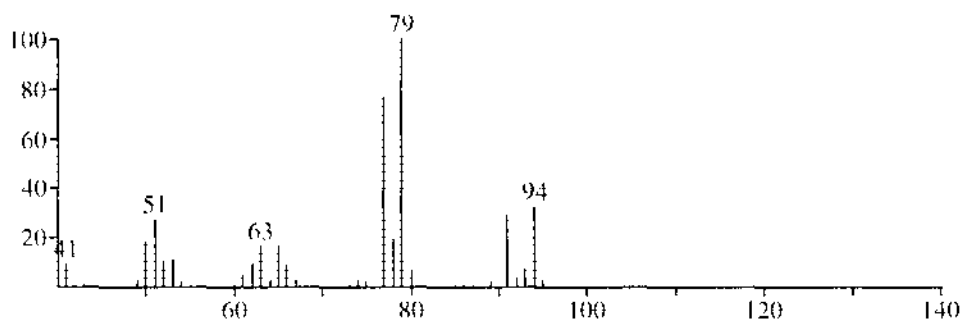
RT: 3.20 AI: 801 KI: 802 **Octene <(4E)->**
CAS#: 14850-23-8 MF: C₈H₁₆ FW: 112 MSD LIB#: 1209
CN: 4-octene, (E)-
Synonyms: none
Source: ref. cpd. ex E. von Rudloff



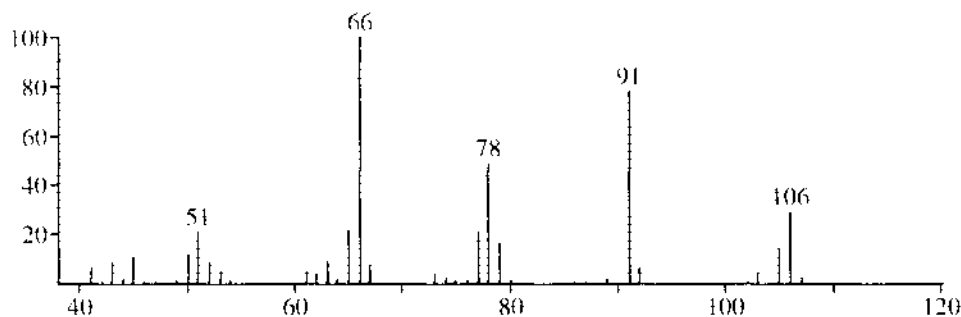
RT: 3.22 AI: 802 KE: 804 **Ethyl butanoate**
 CAS#: 105-54-4 MF: C₆H₁₂O₂ FW: 116 MSD LIB#: 77
 CN: butanoic acid, ethyl ester
 Synonyms: ethyl butyrate
 Source: Aldrich Chem.



RT: 3.25 AI: 804 KI: 806 **Methyl-1,4-cyclohexadiene**
 CAS#: 4313-57-9 MF: C₇H₁₀ FW: 94 MSD LIB#: 1705
 CN: 1,4-cyclohexadiene, 1-methyl-
 Synonyms: dihydrotoluene <2,5->
 Source: Aldrich Chem.



RT: 3.30 AI: 807 KI: 810 **Norbornene <5-methylene-2->**
 CAS#: 694-91-7 MF: C₈H₁₀ FW: 106 MSD LIB#: 1183
 CN: bicyclo(2.2.1)hept-2-ene, 5-methylene-
 Synonyms: none
 Source: ref. cpd. ex H. von Rudloff



RT: 3.31 AI: 807 KE: 811 **Butyl acetate**

CAS#: 123-86-4 MF: C₆H₁₂O₂ FW: 116 MSD LIB#: 23

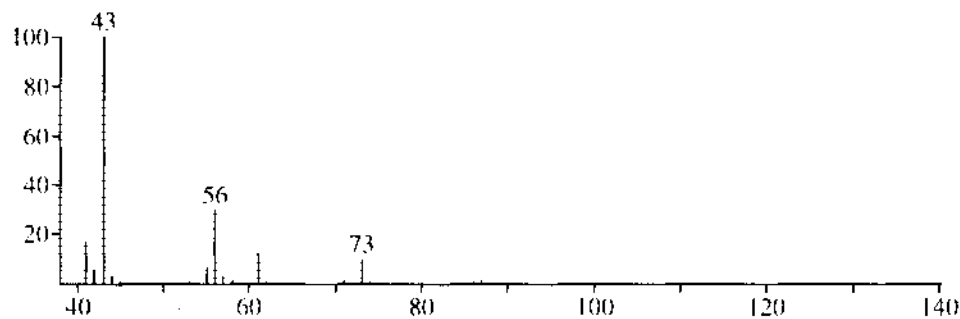
CN: acetic acid, butyl ester

Synonyms: butyl ethanoate

Source: alcohols mix ex E. von Rudloff; 53.06% *Michelia figo* (flower),

p. 17, in: Aromatic Plants & Essential Constituents, Pease Book Co., Hong Kong(1993);

22.24% *Artabotrys hexapetalus* (flower); 9.08% *Mandragora officinarum*



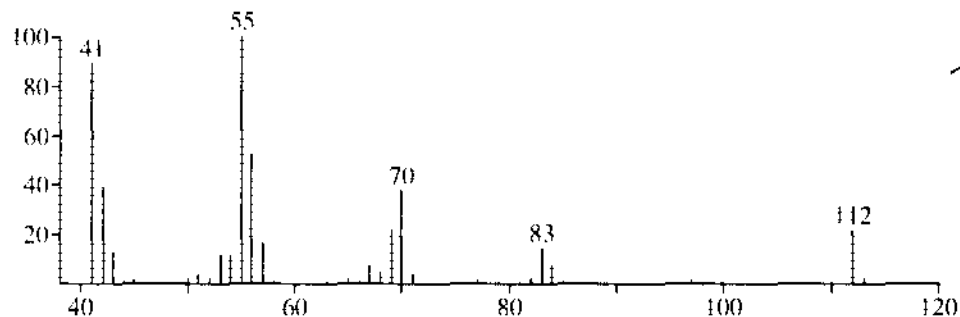
RT: 3.32 AI: 808 KE: 811 **Octene <(2Z)->**

CAS#: 7642-04-8 MF: C₈H₁₆ FW: 112 MSD LIB#: 1207

CN: 2-octene, (Z)-

Synonyms: none

Source: ref. cpd. ex E. von Rudloff



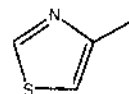
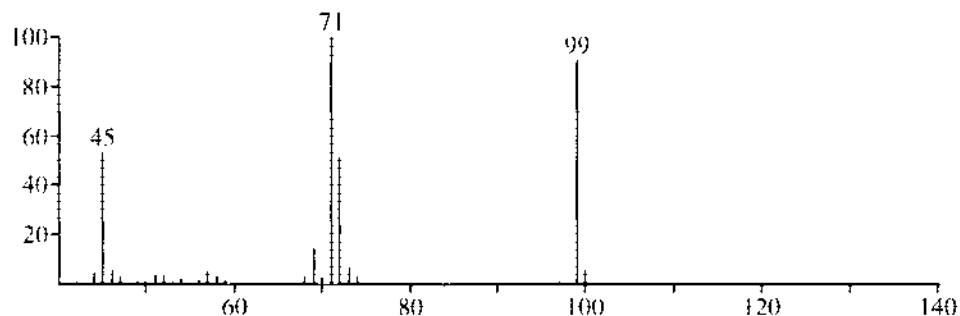
RT: 3.42 AI: 814 KE: 819 **Thiazole <4-methyl->**

CAS#: 693-95-8 MF: C₄H₅N₂S FW: 99 MSD LIB#: 59

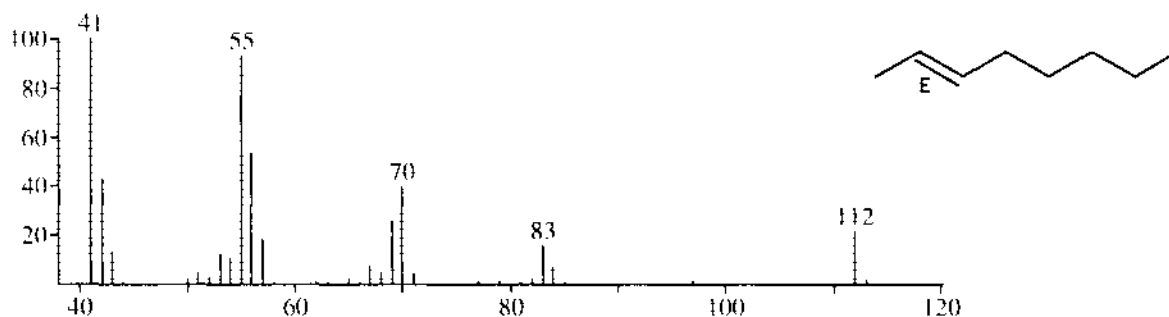
CN: thiazole, 4-methyl-

Synonyms: none

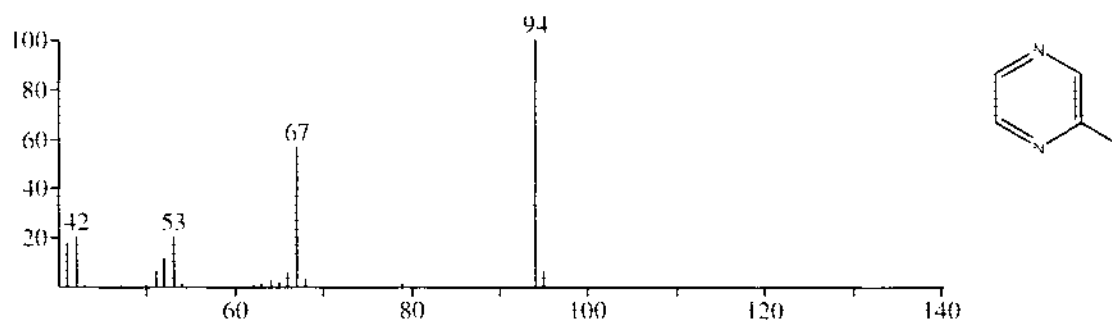
Source: Aldrich Chem.



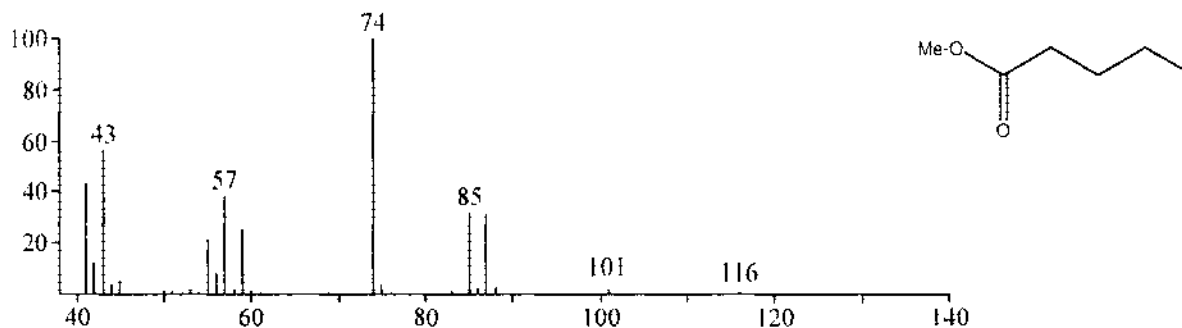
RT: 3.45 AI: 815 KI: 821 **Octene <(2E)->**
 CAS#: 13389-42-9 MF: C₈H₁₆ FW: 112 MSD LIB#: 1208
 CN: 2-octene, (E)-
 Synonyms: none
 Source: ref. cpd. ex E. von Rudloff



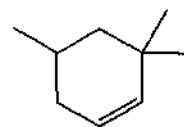
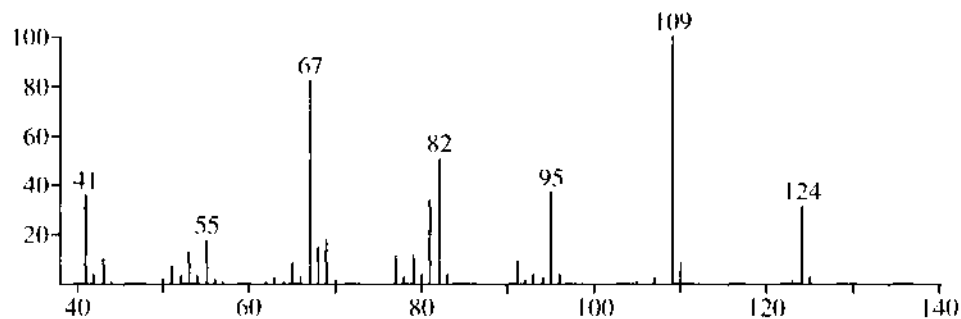
RT: 3.52 AI: 819 KI: 826 **Pyrazine <methyl->**
 CAS#: 109-08-0 MF: C₅H₆N₂ FW: 94 MSD LIB#: 57
 CN: pyrazine, methyl-
 Synonyms: none
 Source: Aldrich Chem.



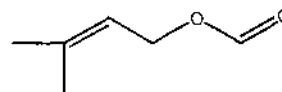
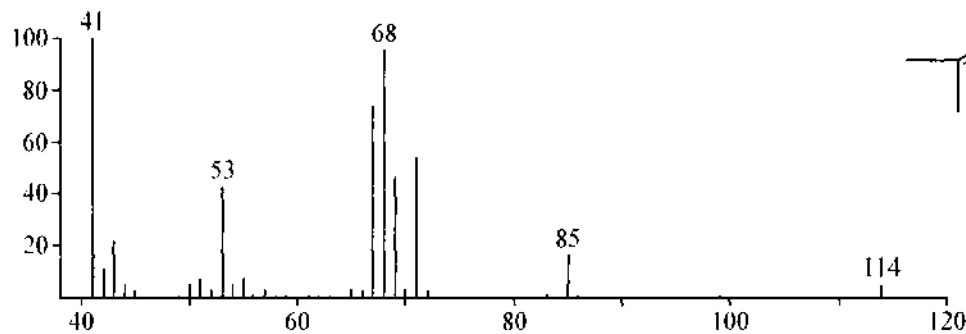
RT: 3.55 AI: 821 KI: 828 **Methyl pentanoate**
 CAS#: 624-24-8 MF: C₆H₁₂O₂ FW: 116 MSD LIB#: 1106
 CN: pentanoic acid, methyl ester
 Synonyms: methyl valerate
 Source: CTC Chem. ex Art Tucker; 0.22% *Aglaia duperreana* (flower),
 p. 75, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong (1993);
 0.01% *Spartium juncinum*



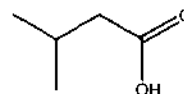
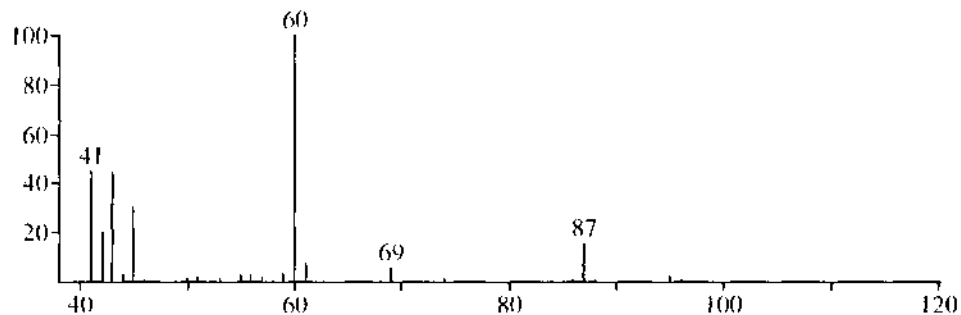
RT: 3.60 AI: 824 KI: 831 **Cyclohexene <3,3,5-trimethyl->**
 CAS#: 503-45-7 MF: C₉H₁₆ FW: 124 MSD LIB#: 2202
 CN: cyclohexene, 3,3,5-trimethyl-
 Synonyms: cyclogeraniolene, epsilon-
 Source: Bedoukian Res.



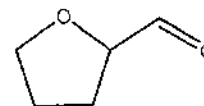
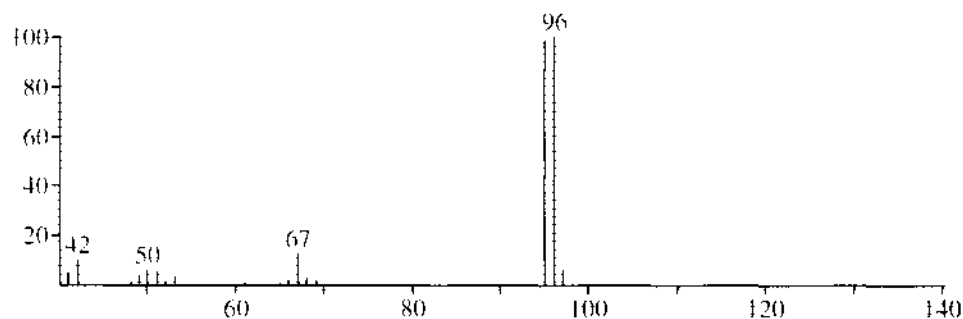
RT: 3.62 AI: 825 KI: 832 **Prenyl formate**
 CAS#: 68480-28-4 MF: C₆H₁₀O₂ FW: 114 MSD LIB#: 2050
 CN: 2-buten-1-ol, 3-methyl-, formate
 Synonyms: none
 Source: Bedoukian Res.



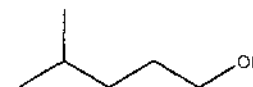
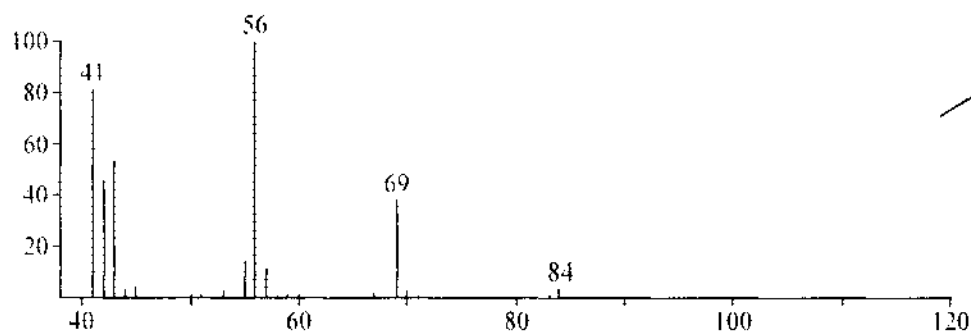
RT: 3.66 AI: 827 KI: 835 **Isovaleric acid**
 CAS#: 503-74-2 MF: C₅H₁₀O₂ FW: 102 MSD LIB#: 1531
 CN: butanoic acid, 3-methyl-
 Synonyms: isopentanoic acid; 3-methylbutanoic acid
 Source: *Valeriana officinalis* root oil ex Art Tucker



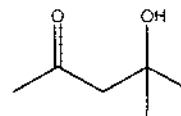
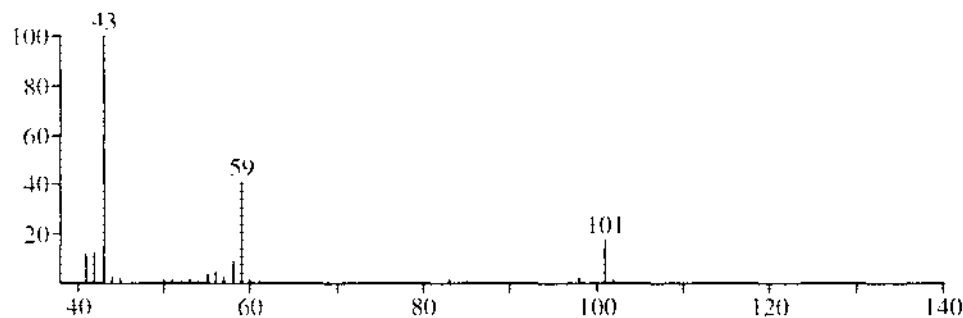
RT: 3.67 AI: 828 KI: 836 **Furfural**
 CAS#: 98-01-1 MF: C₅H₄O₂ FW: 96 MSD LIB#: 725
 CN: 2-furancarboxaldehyde
 Synonyms: α -furole; artificial ant oil; 2-formylfuran
 Source: Aldrich Chem.; 72.39% *Tamarindus indica* JEOR 2:197(1990);
 19.10% *Averrhoa bilimbi* (fruit); 5.30% *Zizyphus jujuba* (fruit)



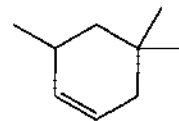
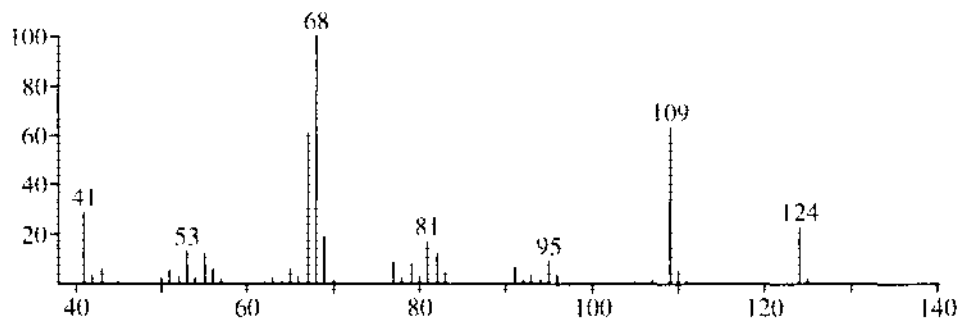
RT: 3.70 AI: 830 KI: 838 **Pentanol <4-methyl->**
 CAS#: 1320-98-5 MF: C₆H₁₄O FW: 102 MSD LIB#: 1249
 CN: pentanol, 4-methyl-
 Synonyms: none
 Source: Aldrich Chem. ex Art Tucker



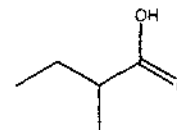
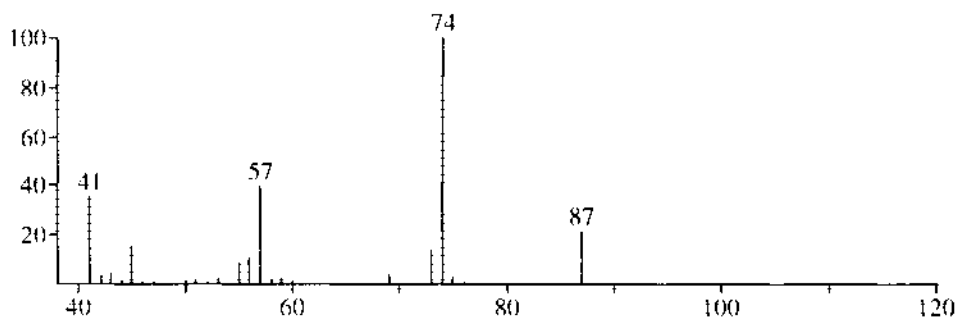
RT: 3.72 AI: 831 KI: 839 **Pentanone <4-hydroxy-4-methyl-2->**
 CAS#: 123-42-2 MF: C₆H₁₂O₂ FW: 116 MSD LIB#: 1750
 CN: 2-pentanone, 4-hydroxy-4-methyl-
 Synonyms: diacetone
 Source: Aldrich Chem.



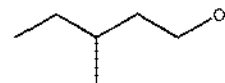
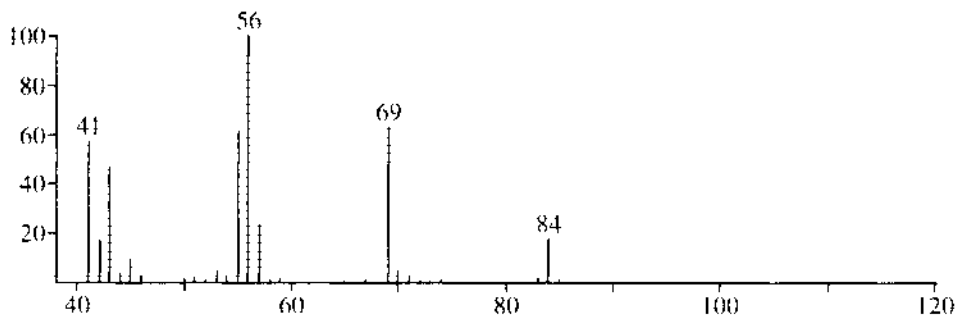
RT: 3.74 Al: 832 Kf: 840 **Cyclohexene <3,5,5-trimethyl->**
 CAS#: 933-12-0 MF: C₉H₁₆ FW: 124 MSD LIB#: 2203
 CN: cyclohexene, 3,5,5-trimethyl-
 Synonyms: cyclogeraniolene, δ -
 Source: Bedoukian Res.



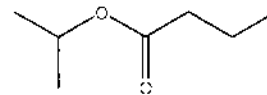
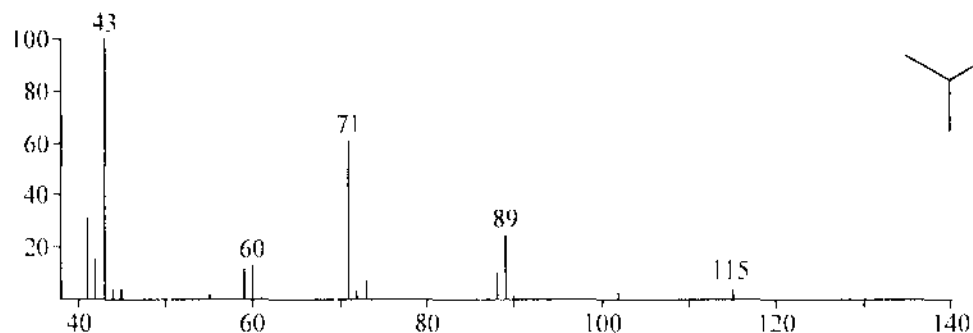
RT: 3.75 Al: 832 Kf: 841 **Butanoic acid <2-methyl->**
 CAS#: 116-53-0 MF: C₅H₁₀O₂ FW: 102 MSD LIB#: 1966
 CN: butanoic acid, 2-methyl-
 Synonyms: 2-methylbutyric acid
 Source: Bedoukian Res. ex JJ Brophy



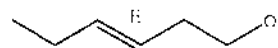
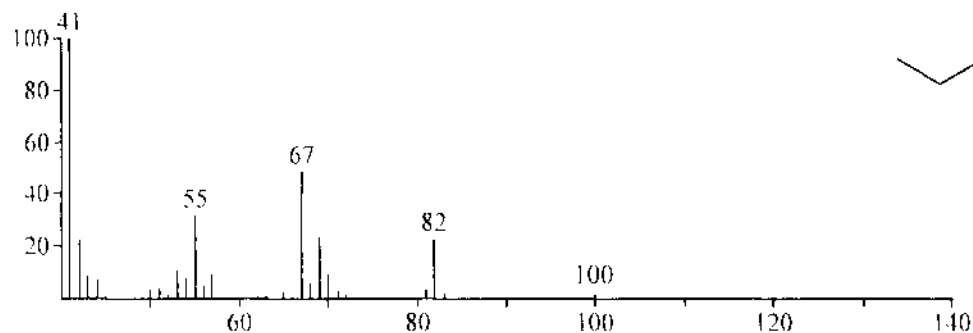
RT: 3.76 Al: 833 Kf: 841 **Pentanol <3-methyl->**
 CAS#: 589-35-5 MF: C₆H₁₄O FW: 102 MSD LIB#: 1987
 CN: 1-pentanol, 3-methyl-
 Synonyms: 2-ethyl-4-butanol
 Source: Bedoukian Res. ex JJ Brophy



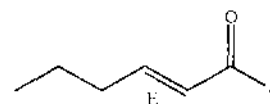
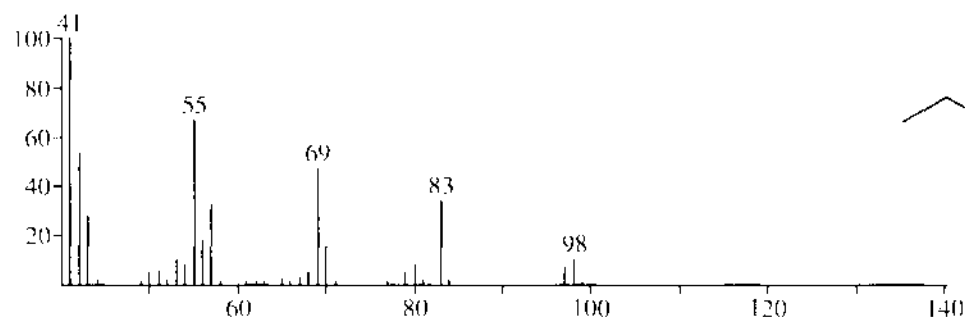
RT: 3.81 AI: 836 KI: 844 **Isopropyl butanoate**
 CAS#: 638-11-9 ME: C₇H₁₄O₂ FW: 130 MSD LIB#: 335
 CN: butanoic acid, 1-methylethyl ester
 Synonyms: isopropyl butyrate
 Source: Aldrich Chem.



RT: 3.96 AI: 844 KI: 853 **Hexenol <(3E)->**
 CAS#: 928-97-2 ME: C₆H₁₂O FW: 100 MSD LIB#: 806
 CN: 3-hexen-1-ol, (E)-
 Synonyms: trans-3-hexenol
 Source: ref. cpd. ex E. von Rudloff; 5.12% *Lawsonia inermis*, p. 44, in: Aromatic
 Plants & Essential Constituents, Peace Book Co., Hong Kong (1993);
 0.85% *Psidium guajava*; 0.10% *Narcissus tazetta* (absolute)



RT: 3.99 AI: 846 KI: 855 **Hexenal <(2E)->**
 CAS#: 6728-26-3 ME: C₆H₁₀O FW: 98 MSD LIB#: 802
 CN: 2-hexenal, (E)-
 Synonyms: trans-2-hexenal; leaf aldehyde
 Source: Aldrich Chem. ex Art Tueker; 33.11% *Spondias cytherea*, F&J 10:375 (1995);
 19.50% *Comptonia peregrina*; 10.00% *Camellia sinensis*



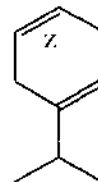
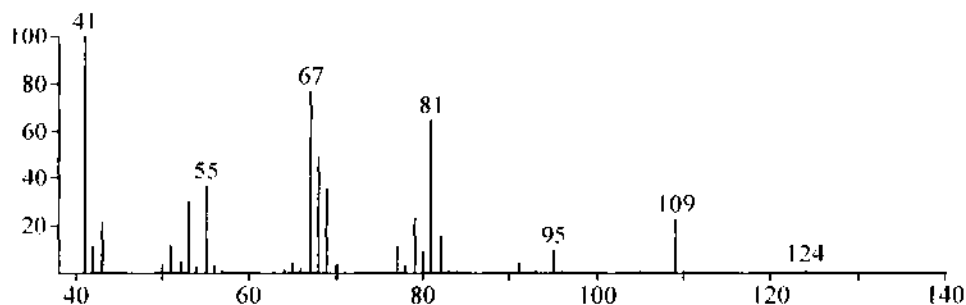
RT: 4.01 AI: 847 KI: 856 **Salvene <(Z)->**

CAS#: 33746-70-2 MF: C₉H₁₆ FW: 124 MSD LIB#: 1374

CN: 2-heptene, 6-methyl-5-methylene-, (Z)-

Synonyms: cis-salvene

Source: *Salvia officinalis* oil ex Art Tucker; 0.75% *Salvia officinalis*, JEOR 2:139(1990);
0.24% *Artemisia absinthum*



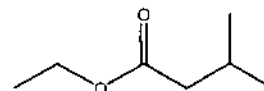
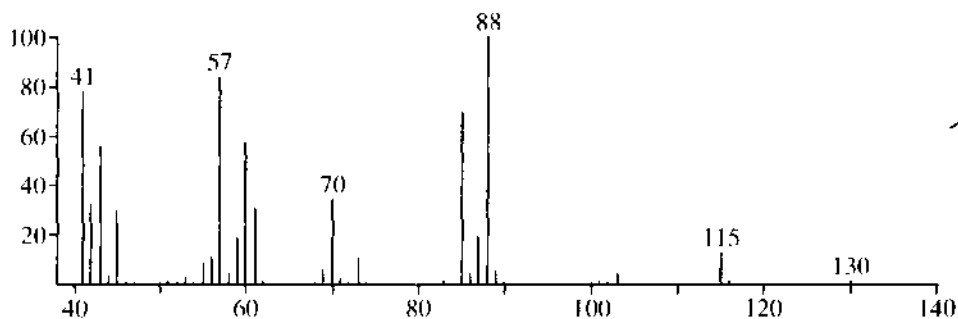
RT: 4.04 AI: 849 KI: 858 **Ethyl isovalerate**

CAS#: 108-64-5 MF: C₇H₁₄O₂ FW: 130 MSD LIB#: 675

CN: butanoic acid, 3-methyl-, ethyl ester

Synonyms: ethyl isopentanoate; ethyl 3-methylbutanoate

Source: ref. cpd. ex Z. Fleisher; 0.86% *Artemisia judaica*, JEOR 2:271(1990);
0.12% *Chamomilla recutita*; 0.01% *Calamintha nepeta*



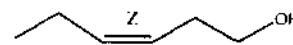
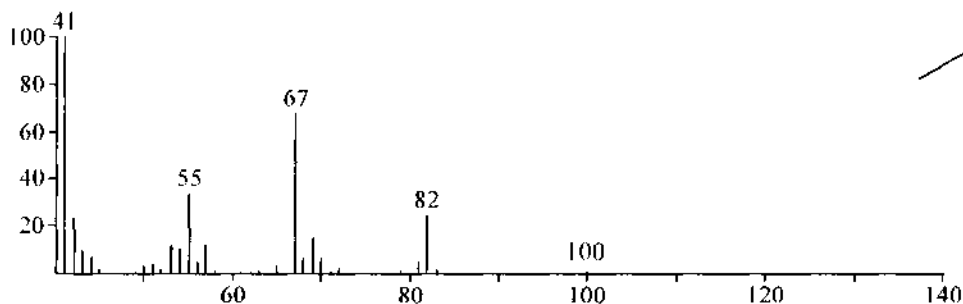
RT: 4.06 AI: 850 KI: 859 **Hexenol <(3Z)->**

CAS#: 928-96-1 MF: C₆H₁₂O FW: 100 MSD LIB#: 805

CN: hex-3-en-1-ol, (Z)-

Synonyms: cis-3-hexenol; leaf alcohol

Source: ref. cpd. ex E. von Rudloff; 13.00% *Lawsonia inermis* (flower), JEOR 7:425(1995);
10.64% *Convallaria majalis*; 10.39% *Nicotiana rustica* (flower)



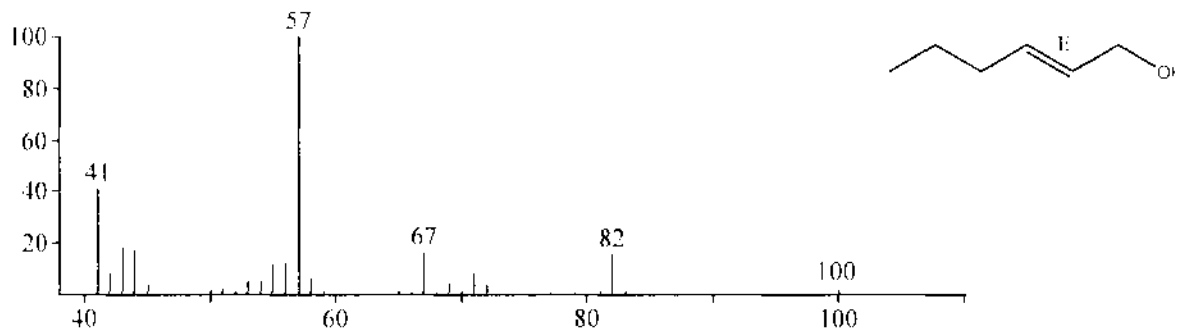
RT: 4.13 AI: 854 KI: 862 **Hexenol <(2E)->**

CAS#: 928-95-0 MF: C₆H₁₂O FW: 100 MSD LIB#: 1947

CN: (2E) hexen-1-ol

Synonyms: hexenol, trans-2-

Source: Bedoukian Res. ex JJ Brophy; 7.86% *Spondias cytherea*, FIJ 10:375(1995);
6.10% *Thymus vulgaris*; 3.22% *Lawsonia inermis*



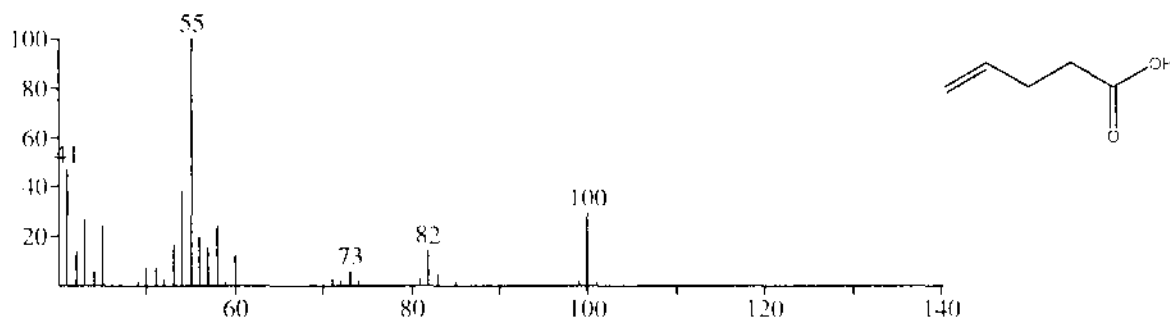
RT: 4.20 AI: 858 KI: 866 **Pentenoic acid <4->**

CAS#: 591-80-0 MF: C₅H₈O₂ FW: 100 MSD LIB#: 1969

CN: 4-pentenoic acid

Synonyms: 4-pentenoic acid

Source: Bedoukian Res. ex JJ Brophy; 0.81% *Gardenia jasminoides*, JEOR 8:241(1996)



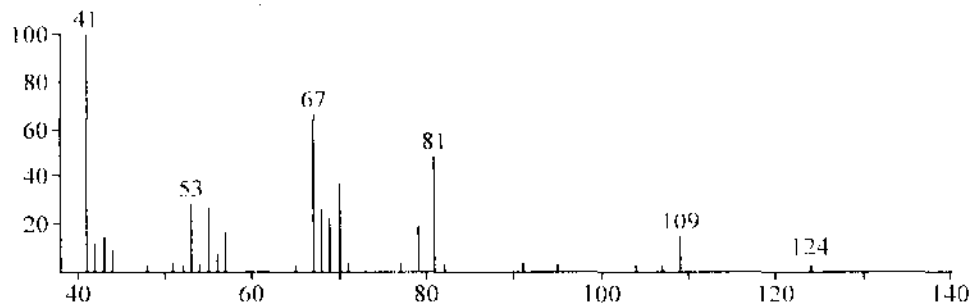
RT: 4.20 AI: 858 KI: 866 **Salvene <(E)->**

CAS#: 33746-69-9 MF: C₉H₁₆ FW: 124 MSD LIB#: 1375

CN: 2-heptene, 6-methyl-5-methylene-, (E)-

Synonyms: trans-salvene

Source: *Salvia officinalis* oil ex Art Tucker; 0.35% *Salvia officinalis*,
Deut. Apoth. Zig. 127:2543(1987); 0.10% *Thuja occidentalis*



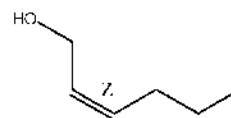
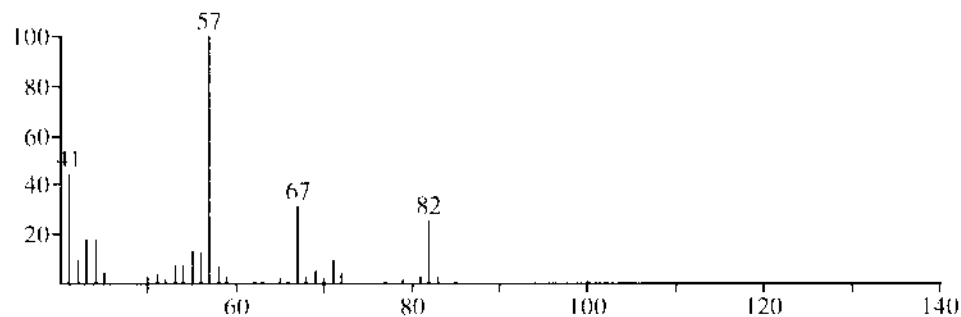
RT: 4.22 AI: 859 KI: 867 **Hexenol <(2Z)->**

CAS#: 928-94-9 MF: C₆H₁₂O FW: 100 MSD LIB#: 1945

CN: 2-hexen-1-ol,(Z)-

Synonyms: none

Source: Bedoukian Res. ex JJ Brophy; 0.10% *Lawsonia inermis*, JEOR 7:425(1995);
0.01% *Daphne genkwa*; 0.01% *Calamintha nepeta*



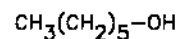
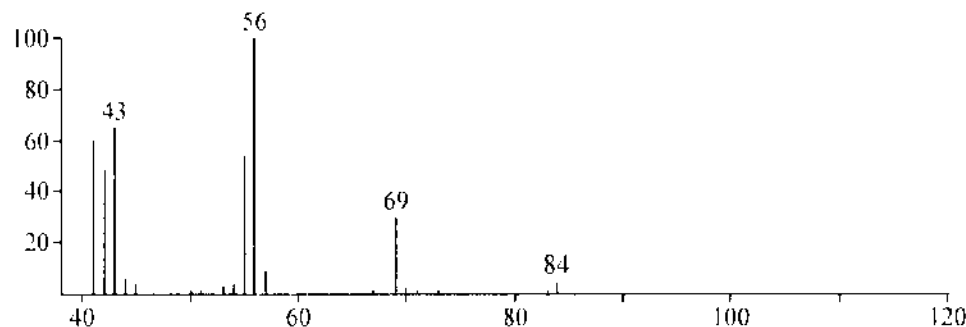
RT: 4.28 AI: 863 KI: 870 **Hexanol <n->**

CAS#: 111-27-3 MF: C₆H₁₄O FW: 102 MSD LIB#: 1429

CN: hexan-1-ol

Synonyms: none

Source: ref. cpd. ex E. von Rudloff



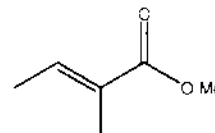
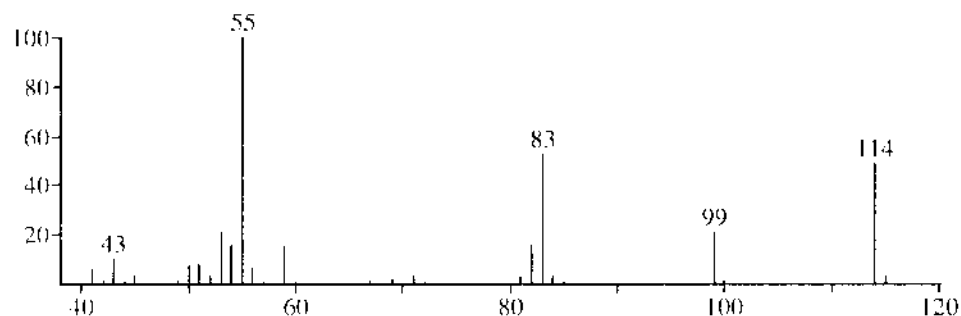
RT: 4.28 AI: 863 KI: 870 **Methyl tiglate**

CAS#: 6622-76-0 MF: C₆H₁₀O₂ FW: 114 MSD LIB#: 41

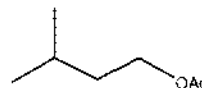
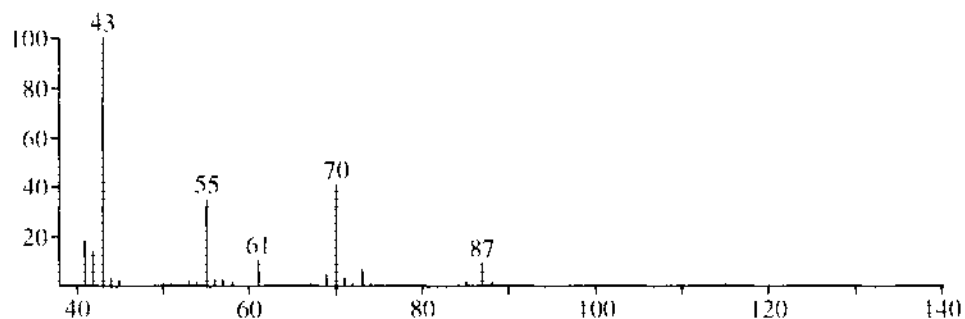
CN: 2-butenic acid, 2-methyl-, methyl ester

Synonyms: crotonic acid, 2-methyl, methyl ester

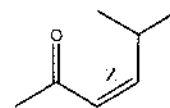
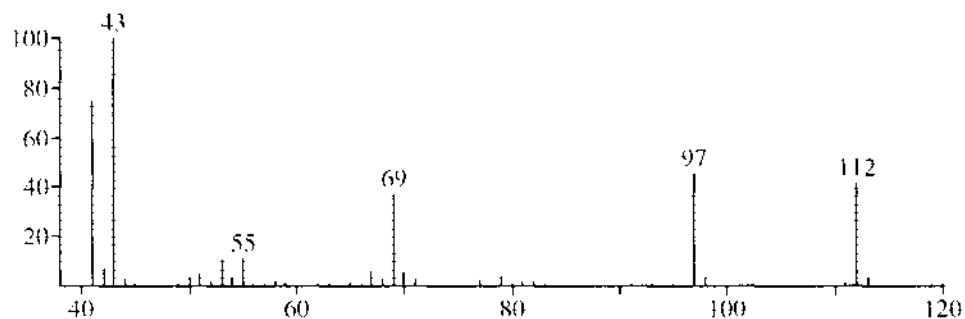
Source: Aldrich Chem.; 3.29% *Gardenia jasminoides*, p. 90, in: Aromatic Plants & Essential Constituents,
Peace Book Co., Hong Kong (1993); 0.12% *Chamomilla recutita*



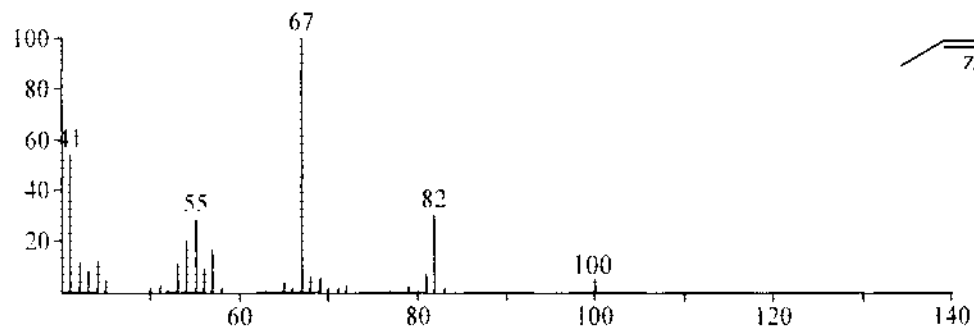
RT: 4.40 AI: 869 KI: 876 **Isopentyl acetate**
 CAS#: 123-92-2 MF: C₇H₁₄O₂ FW: 130 MSD LIB#: 1866
 CN: 1-butanol, 3-methyl-, acetate
 Synonyms: banana oil, isoamyl acetate, pear oil, isopentyl ethanoate
 Source: Aldrich Chem.



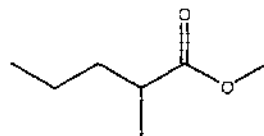
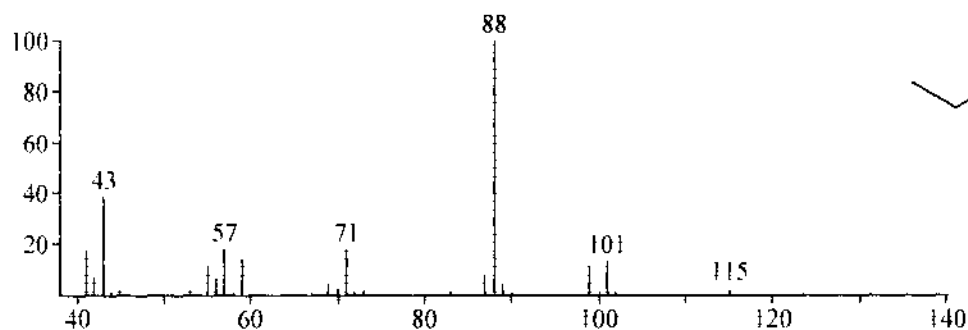
RT: 4.40 AI: 869 KI: 876 **Methyl-(3Z)-hexen-2-one <5->**
 CAS#: 1669-43-8 MF: C₇H₁₂O FW: 112 MSD LIB#: 2025
 CN: 3-hexen-2-one, 5-methyl- (3Z)-
 Synonyms: none
 Source: Bedoukian Res. ex JJ Brophy



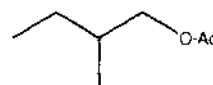
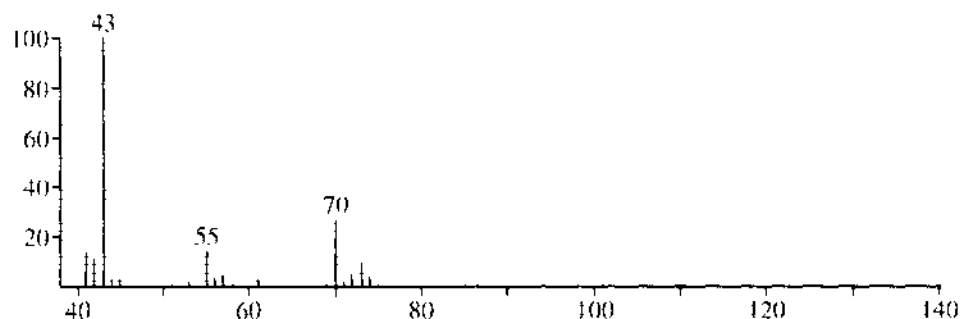
RT: 4.42 AI: 871 KI: 877 **Hexenol <(4Z)->**
 CAS#: 928-91-6 MF: C₆H₁₂O FW: 100 MSD LIB#: 2047
 CN: 4-hexen-1-ol, (4Z)-
 Synonyms: none
 Source: Bedoukian Res.



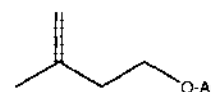
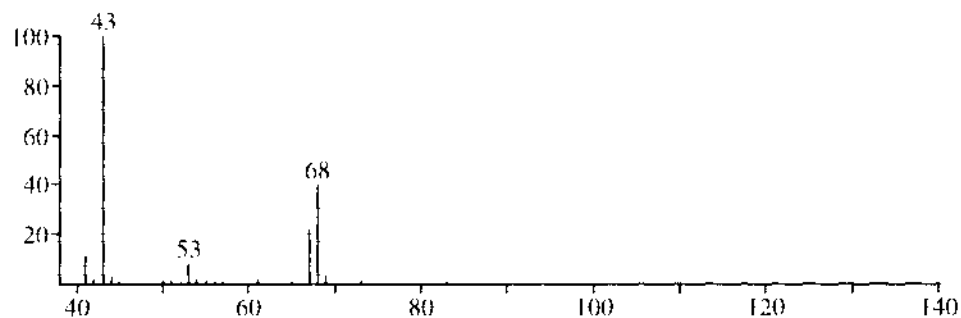
RT: 4.42 AI: 871 KI: 877 **Methyl pentanoate <2-methyl->**
 CAS#: 2177-77-7 MF: C7 H14 O2 FW: 130 MSD LIB#: 1970
 CN: pentanoic acid, 2-methyl-, methyl ester
 Synonyms: Valeric acid, 2-methyl, methyl ester
 Source: Bedoukian Res. ex JJ Brophy



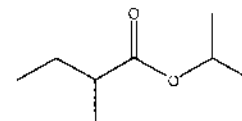
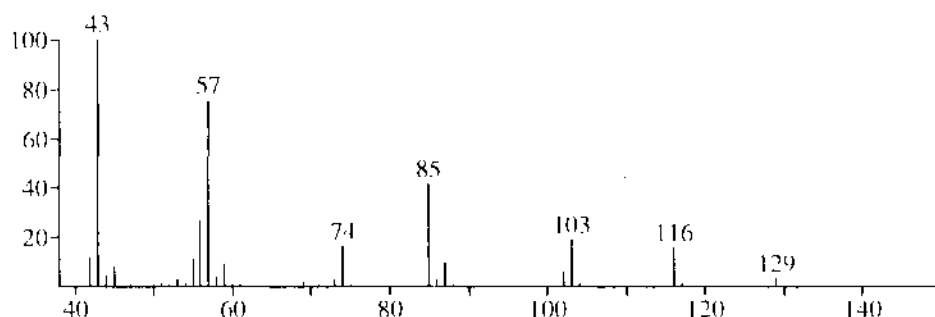
RT: 4.50 AI: 875 KI: 881 **Methyl butyl acetate <2->**
 CAS#: 624-41-9 MF: C7 H14 O2 FW: 130 MSD LIB#: 1088
 CN: 1-butanol, 2-methyl, acetate
 Synonyms: sec-pentyl acetate; sec-amyl acetate
 Source: Aldrich Chem.: 4.24% *Michelia figo*, p. 17, in: Aromatic Plants & Essential Oil Constituents, Pease Book Co., Hong Kong (1993); 2.80% *Michelia balansae*; 0.62% *Anthemis nobilis*



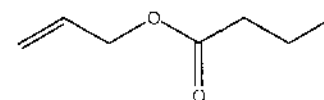
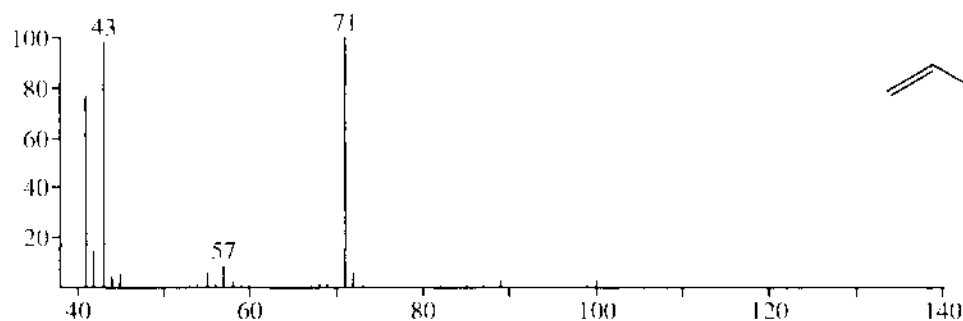
RT: 4.59 AI: 880 KI: 885 **Buten-1-ol acetate <3-methyl-3->**
 CAS#: 5205-07-2 MF: C7 H12 O2 FW: 128 MSD LIB#: 320
 CN: 3-buten-1-ol, 3-methyl, acetate
 Synonyms: 3-methyl-3-butenyl acetate
 Source: acetylation of 3-me-1-buten-1-ol(6284)



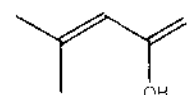
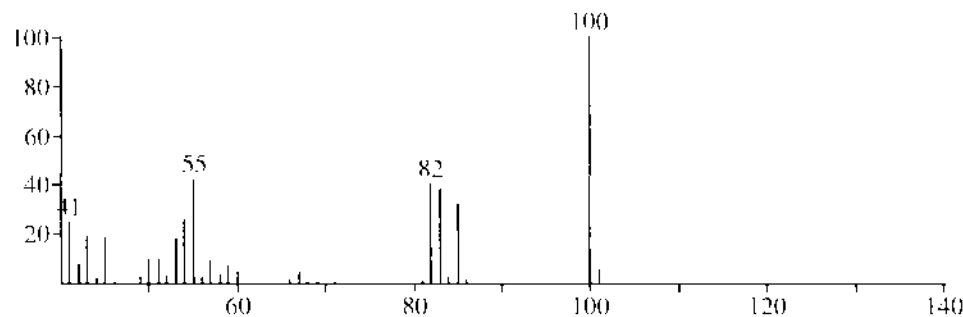
RT: 4.59 AI: 880 KI: 885 **Isopropyl-2-methyl butyrate**
CAS#: 66576-71-4 ME: C₈H₁₆O₂ FW: 144 MSD LIB#: 1623
CN: butanoic acid, 2-methyl-, 1-methylethyl ester
Synonyms: none
Source: Aldrich Chem.



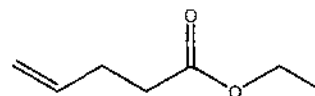
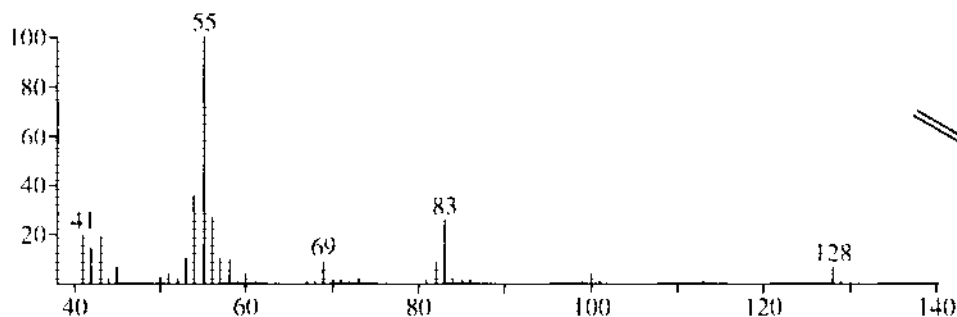
RT: 4.60 AI: 881 KI: 885 **Allyl butanoate**
CAS#: 2051-78-7 ME: C₇H₁₂O₂ FW: 128 MSD LIB#: 72
CN: butanoic acid, 2-propenyl ester
Synonyms: 2 propenyl butyrate
Source: Aldrich Chem.



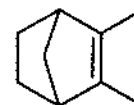
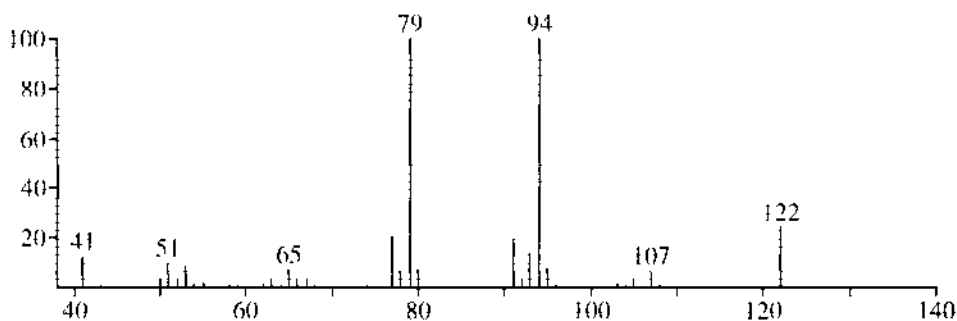
RT: 4.60 AI: 881 KI: 885 **Butenoic acid <3-methyl-2->**
CAS#: 541-47-9 ME: C₅H₈O₂ FW: 100 MSD LIB#: 1704
CN: 2-butenoic acid, 3-methyl-
Synonyms: Crotonic acid <3-methyl->, senecioic acid
Source: Aldrich Chem.



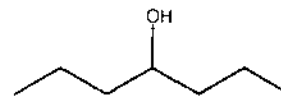
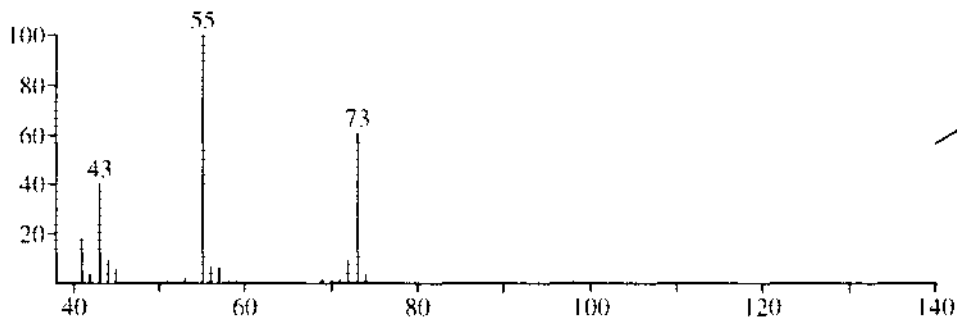
RT: 4.65 AI: 884 KI: 888 **Ethyl pent-4-enoate**
 CAS#: 1968-40-7 MF: C₇H₁₂O₂ FW: 128 MSD LIB#: 678
 CN: 4-pentenoic acid, ethyl ester
 Synonyms: 4-ethoxycarbonylpent-1-ene
 Source: Bedoukian Res. ex Art Tucker



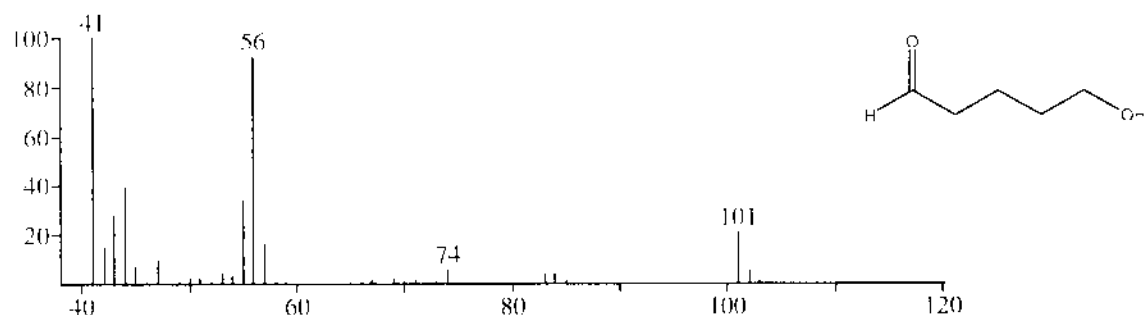
RT: 4.66 AI: 884 KI: 888 **Santene**
 CAS#: 529-16-8 MF: C₉H₁₄ FW: 122 MSD LIB#: 1
 CN: bicyclo(2.2.1)hept-2-ene, 2,3-dimethyl-
 Synonyms: none
 Source: *Abies siberica* oil ex E. von Rudloff; 6.10% *Bupleurum linearifolium*.
 Pakistan J. Sci. Ind. Res. 22:325(1979); 5.00% *Abies alba*; 3.46% *Pseudotsuga menziesii*



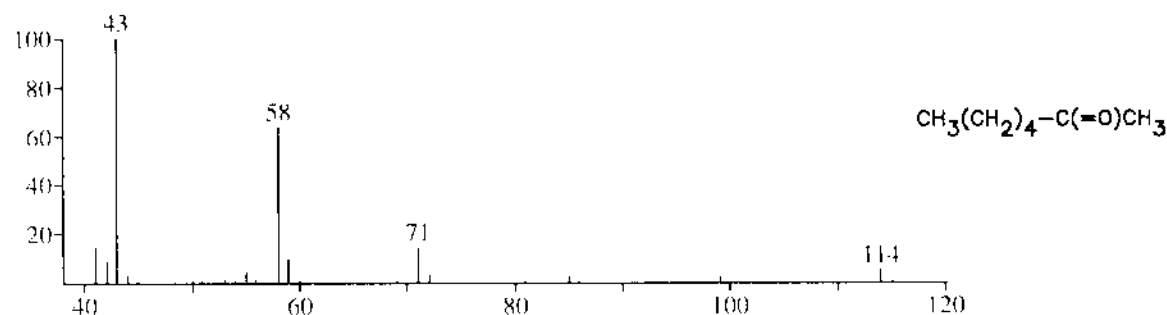
RT: 4.68 AI: 885 KI: 889 **Heptanol <4>**
 CAS#: 589-55-9 MF: C₇H₁₆O FW: 116 MSD LIB#: 782
 CN: 4-heptanol
 Synonyms: dipropylcarbinol
 Source: Pfaltz & Bauer ex Art Tucker



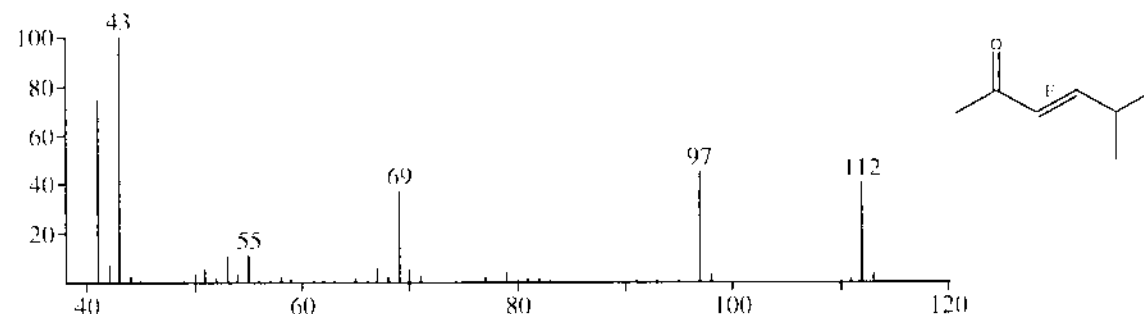
RT: 4.70 AI: 886 KI: 890 **Pentanal <5-hydroxy->**
 CAS#: 4221-03-8 MF: C₅H₁₀O₂ FW: 102 MSD LIB#: 1246
 CN: pentanal, 5-hydroxy-
 Synonyms: valeraldehyde, 5-hydroxy-
 Source: ref. cpd. ex E. von Rudloff



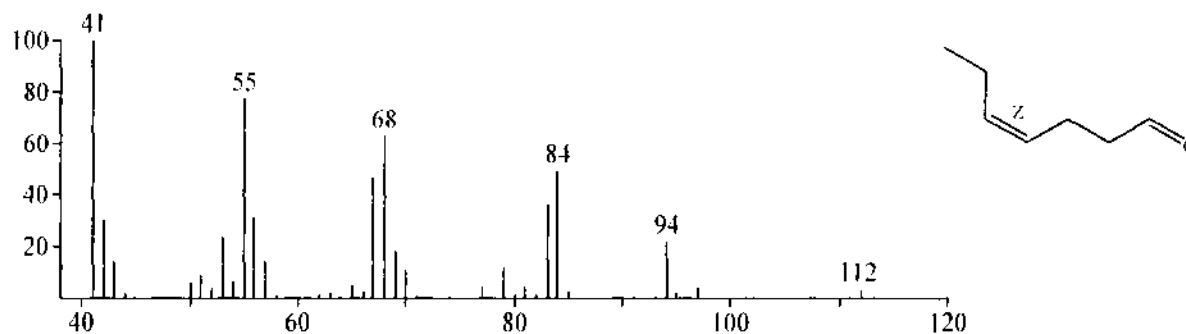
RT: 4.74 AI: 889 KI: 892 **Heptanone <2->**
 CAS#: 110-43-0 MF: C₇H₁₄O FW: 114 MSD LIB#: 786
 CN: 2-heptanone
 Synonyms: methylamyl ketone; amyl methyl ketone; pentyl methyl ketone; methyl pentyl ketone;
 Source: Aldrich Chem.: 0.30% *Scleria striatinox* (rhizome), JEOR 8:59(1996);
 0.10% *Zingiber officinale*; 0.05% *Boldea fragrans* (leaf)



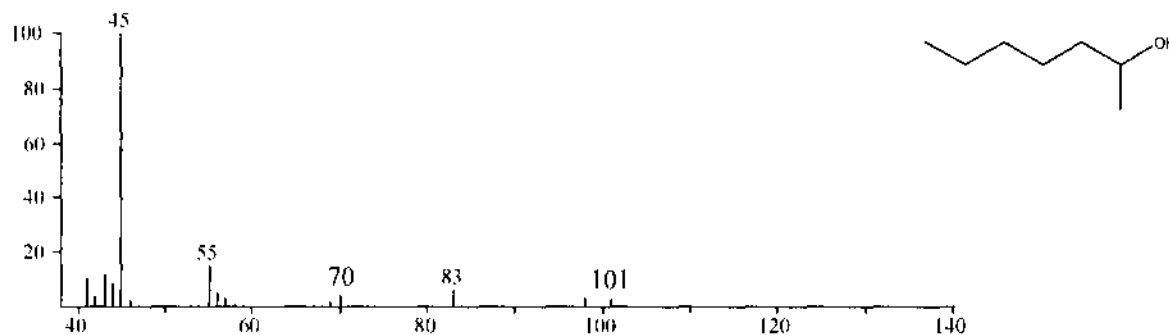
RT: 4.80 AI: 892 KI: 894 **Methyl-(3E)-hexen-2-one <5->**
 CAS#: 1821-29-0 MF: C₇H₁₂O FW: 112 MSD LIB#: 2024
 CN: 3-hexen-2-one, 5-methyl-, (3E)-
 Synonyms: none
 Source: Bedoukian Res. ex JJ Brophy



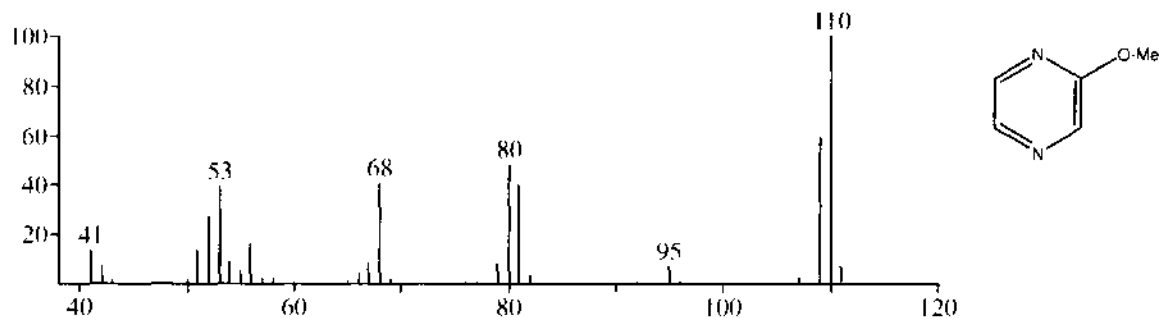
RT: 4.82 AI: 893 KI: 895 **Heptenal <(4Z)->**
 CAS#: 6728-31-0 MF: C7 H12 O FW: 112 MSD LIB#: 1985
 CN: 4-heptenal, (Z)-
 Synonyms: none
 Source: Bedoukian Res. ex JJ Brophy



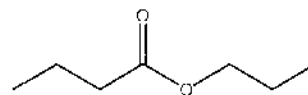
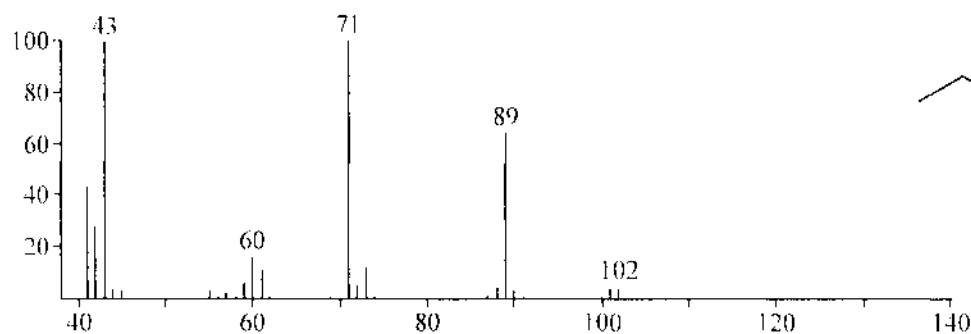
RT: 4.84 AI: 894 KI: 896 **Heptanol <2->**
 CAS#: 543-49-7 MF: C7 H16 O FW: 116 MSD LIB#: 1815
 CN: 2-heptanol
 Synonyms: sec-heptyl alcohol
 Source: alcohols mix (2-OHs) ex K-H Kubeczka; 0.80% *Curcuma aromatica*,
 JEOR 8:633(1996); 0.70% *Lawsonia inermis* (flower); 0.60% *Aframomum melegueta*



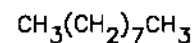
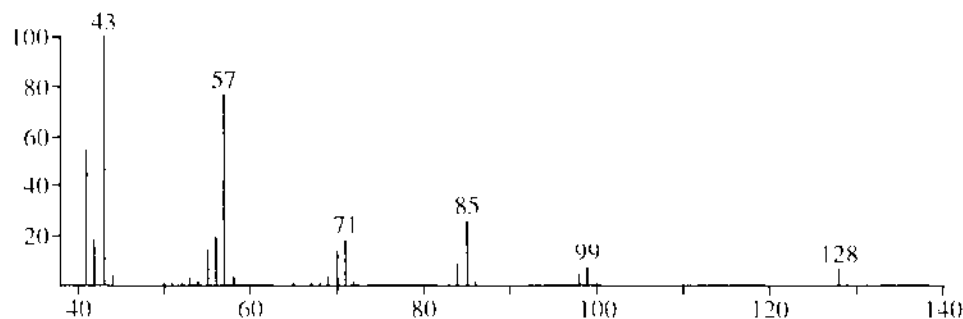
RT: 4.86 AI: 896 KI: 897 **Pyrazine <2-methoxy->**
 CAS#: 3149-28-8 MF: C5 H6 N2 O FW: 110 MSD LIB#: 58
 CN: pyrazine, methoxy-
 Synonyms: none
 Source: Aldrich Chem.



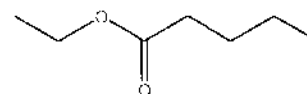
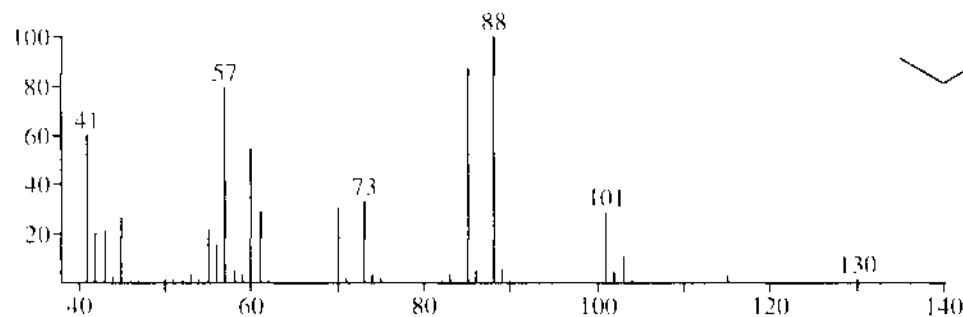
RT: 4.91 AI: 898 KI: 899 **Propyl butanoate**
 CAS#: 105-66-8 MF: C₇H₁₄O₂ FW: 130 MSD LIB#: 336
 CN: butanoic acid, propyl ester
 Synonyms: propyl butyrate; butyric acid, propyl ester
 Source: Aldrich Chem.



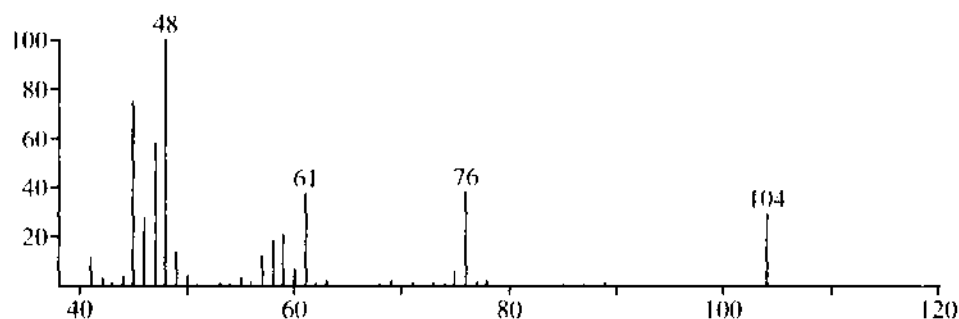
RT: 4.93 AI: 900 KI: 900 **Nonane <n->**
 CAS#: 111-84-2 MF: C₉H₂₀ FW: 128 MSD LIB#: 88
 CN: nonane
 Synonyms: none
 Source: ref. cpd. ex E. von Rudloff: 42.00% *Pittosporum tobira*, p. 57, in: Prog. in Ess. Oil Research, E.-J. Brunke Ed., Gruyter Publ., Berlin(1986); 9.70% *Hypericum perforatum*; 1.28% *Coriandrum sativum*



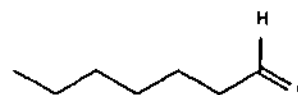
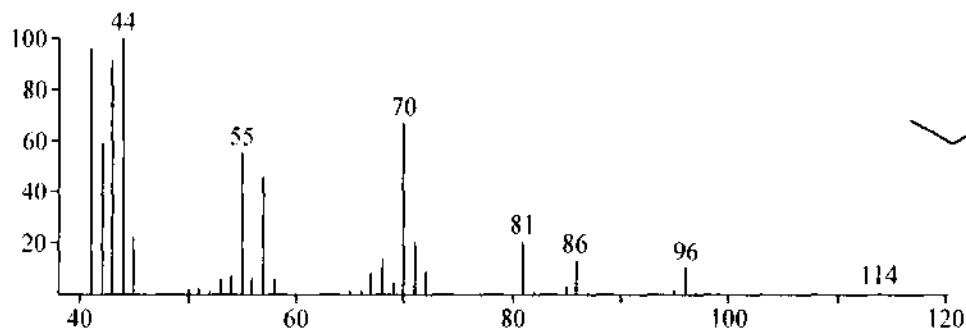
RT: 4.96 AI: 901 KI: 901 **Ethyl pentanoate**
 CAS#: 539-82-2 MF: C₇H₁₄O₂ FW: 130 MSD LIB#: 78
 CN: pentanoic acid, ethyl ester
 Synonyms: ethyl valerate
 Source: Aldrich Chem.: 1.38% *Pyrus serotina* (Asian), JEOR 4:645(1992); 0.10% *Tagetes minuta*



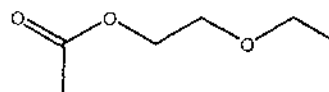
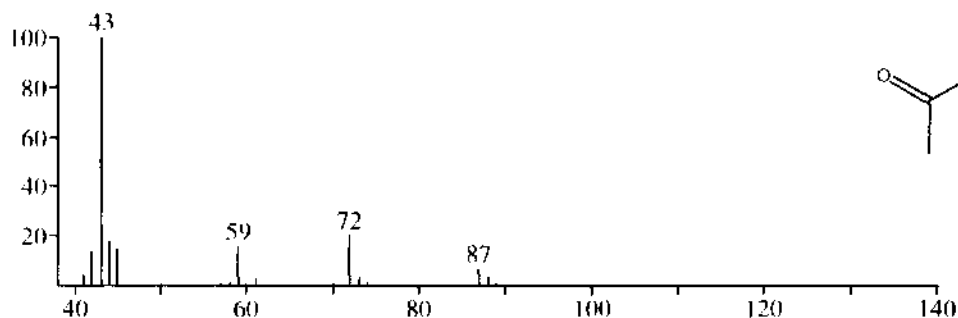
RT: 4.97 AI: 901 KI: 901 **Propanal <3-methylthio->**
 CAS#: 3268-49-3 MF: C₄H₈OS FW: 104 MSD LIB#: 1709
 CN: 1-propanal, 3-(methylthio)-
 Synonyms: methional, thiapentanal <4->
 Source: Aldrich Chem.



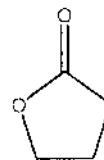
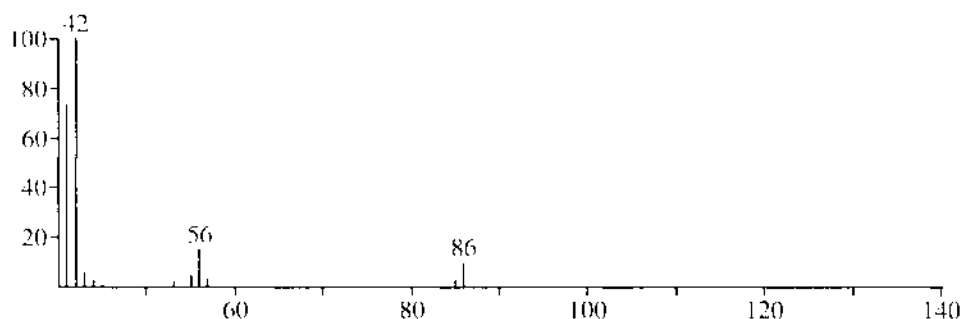
RT: 4.98 AI: 901 KI: 902 **Heptanal**
 CAS#: 111-71-7 MF: C₇H₁₄O FW: 114 MSD LIB#: 779
 CN: heptanal
 Synonyms: enanthaldehyde; enanthole; oennathal
 Source: Pfaltz & Bauer ex Art Tucker: 17.07% *Michelia champaca*,
 p. 16, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong (1993);
 14.85% *Narcissus tazetta*; 1.80% *Tilia cordata*



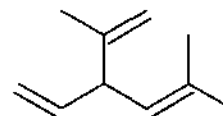
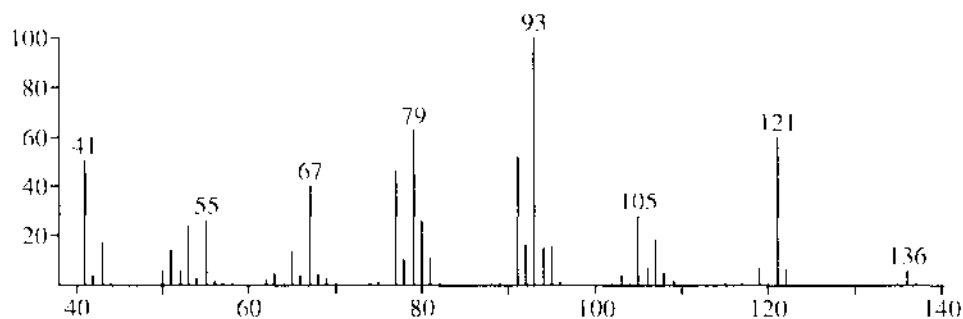
RT: 5.03 AI: 903 KI: 904 **Ethoxy ethyl acetate <2->**
 CAS#: 111-15-9 MF: C₆H₁₂O₃ FW: 132 MSD LIB#: 1749
 CN: 2-ethoxyethyl acetate
 Synonyms: cellusolve acetate, ethyl glycol acetate
 Source: Baker Chem.



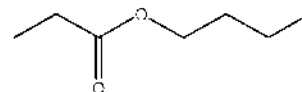
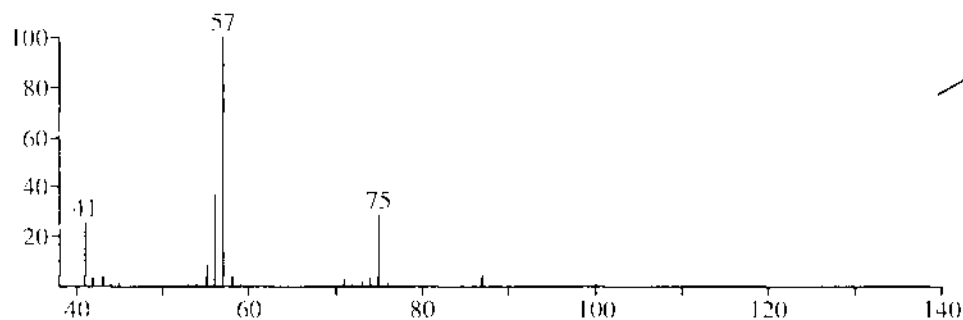
RT: 5.05 AI: 904 KI: 905 **Hydroxybutanoic acid lactone <4->**
 CAS#: 96-48-0 MF: C₄H₆O₂ FW: 86 MSD LIB#: 1596
 CN: 2(3H)-furanone, dihydro-
 Synonyms: 4-butanolide, butyryl lactone, butyric acid lactone
 Source: Aldrich Chem.



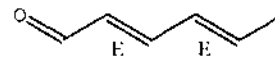
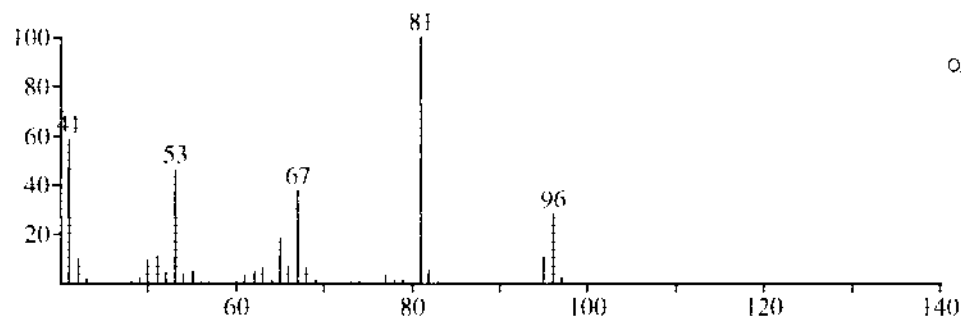
RT: 5.12 AI: 906 KI: 908 **Santolina triene**
 CAS#: 2153-66-4 MF: C₁₀H₁₆ FW: 136 MSD LIB#: 226
 CN: 1,4-hexadiene, 3-ethenyl-2,5-dimethyl-
 Synonyms: none
 Source: *Artemisia tridentata*, SLC, Utah, RP Adams #5577; 1.40% *Santolina chamaecyparissus*, Sci. Pharm. 55:267(1987); 0.40% *Ormenis mixta*; 0.36% *Artemisia vestita*



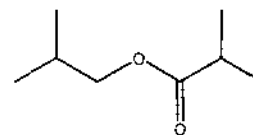
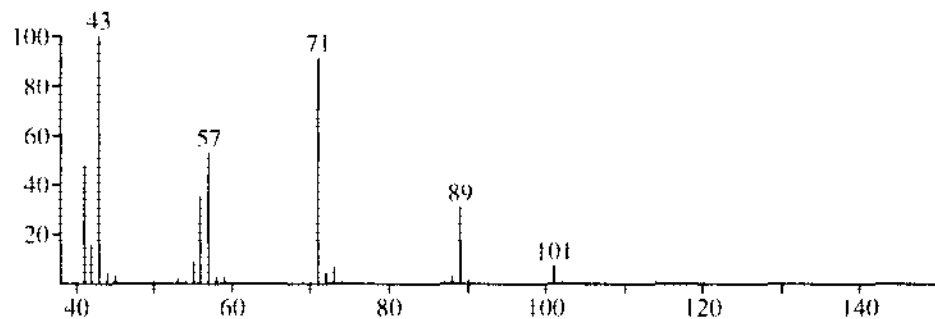
RT: 5.13 AI: 907 KI: 909 **Butyl propanoate**
 CAS#: 590-01-2 MF: C₇H₁₄O₂ FW: 130 MSD LIB#: 331
 CN: propanoic acid, butyl ester
 Synonyms: UN 1914
 Source: Aldrich Chem.; 0.17% *Citrus sinensis*, JEOR 7:105(1995); 0.01% *Lavender angustifolia*; 0.01% *Spartium junceum*



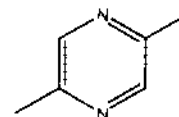
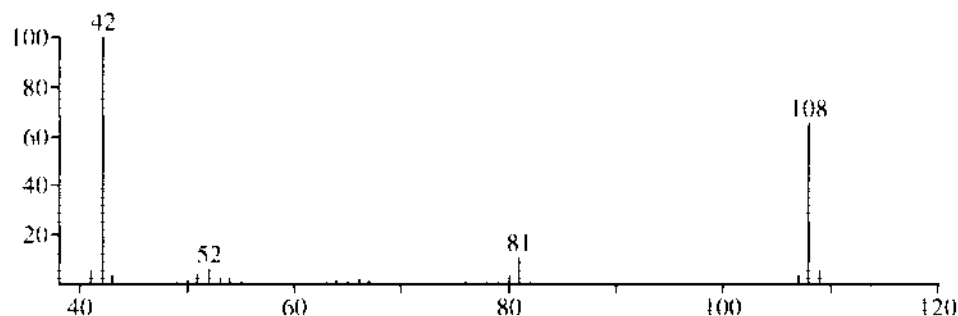
RT: 5.14 AI: 907 KI: 909 **Hexadienal <(2E,4E)->**
 CAS#: 142-83-6 MF: C₆ H₈ O FW: 96 MSD LIB#: 798
 CN: 2,4-hexadienal, (E,E)-
 Synonyms: sorbaldehyde; trans-2, trans-4-hexadienal
 Source: ref. cpd. ex E. von Rudloff



RT: 5.18 AI: 908 KI: 911 **Isobutyl isobutyrate**
 CAS#: 97-85-8 MF: C₈ H₁₆ O₂ FW: 144 MSD LIB#: 1615
 CN: propanoic acid, 2-methyl-, 2-methylpropyl ester
 Synonyms: isobutyric acid, isobutyl ester
 Source: Aldrich Chem.; 26.89% *Artabotrys hexapetalus*, p. 21, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong (1993); 14.00% *Eriocephalus punctualis*; 12.70% *Anthemis nobilis*



RT: 5.18 AI: 908 KI: 911 **Pyrazine <2,5-dimethyl->**
 CAS#: 123-32-0 MF: C₆ H₈ N₂ FW: 108 MSD LIB#: 61
 CN: pyrazine, 2,5-dimethyl-
 Synonyms: none
 Source: Aldrich Chem.



RT: 5.19 AI: 909 KI: 912 **Acetylfuran <2->**

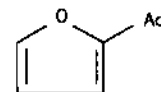
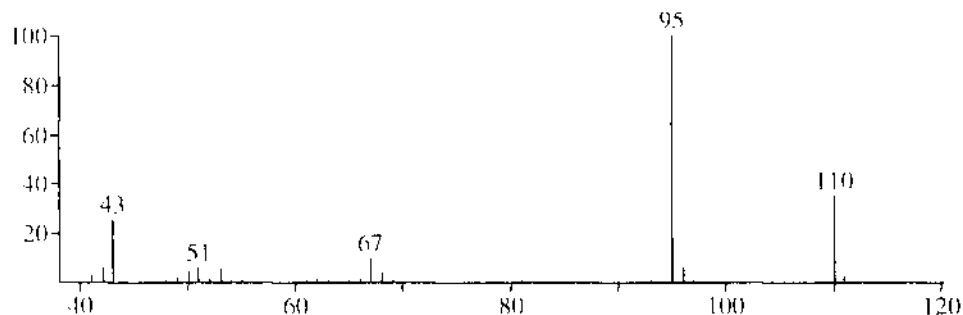
CAS#: 1192-62-7 MF: C₆H₆O₂ FW: 110 MSD LIB#: 47

CN: ethanone, 1-(2-furanyl)-

Synonyms: α -acetylfuran, 2-furyl methyl ketone

Source: Aldrich Chem.; 0.72% *Tamarindus indica*, JFOR 2:197(1990);

0.53% *Daphne genkwa*; 0.18% *Gardenia jasminoides*



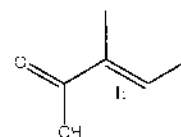
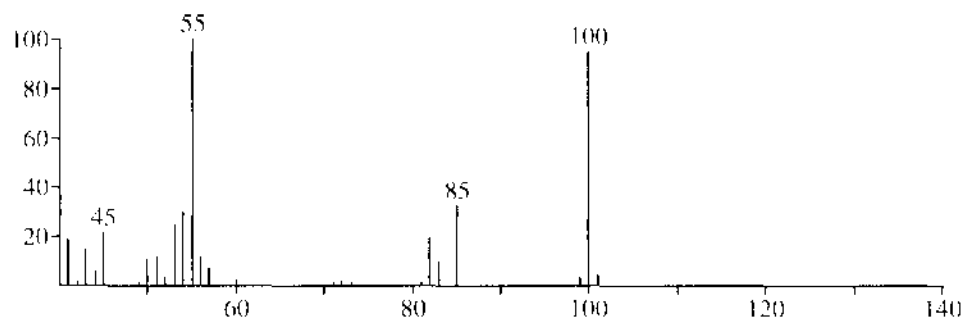
RT: 5.20 AI: 909 KI: 912 **Tiglic acid**

CAS#: 80-59-1 MF: C₅H₈O₂ FW: 100 MSD LIB#: 2061

CN: 2-butenoic acid, 2-methyl-(2E)-

Synonyms: crotonic acid, trans-2-methyl-, cevadic acid

Source: Bedoukian Res.



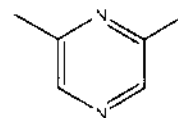
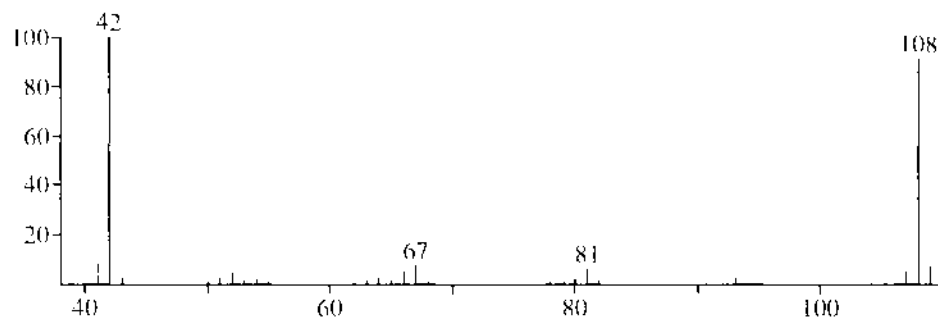
RT: 5.21 AI: 909 KI: 912 **Pyrazine <2,6-dimethyl->**

CAS#: 108-50-9 MF: C₆H₈N₂ FW: 108 MSD LIB#: 62

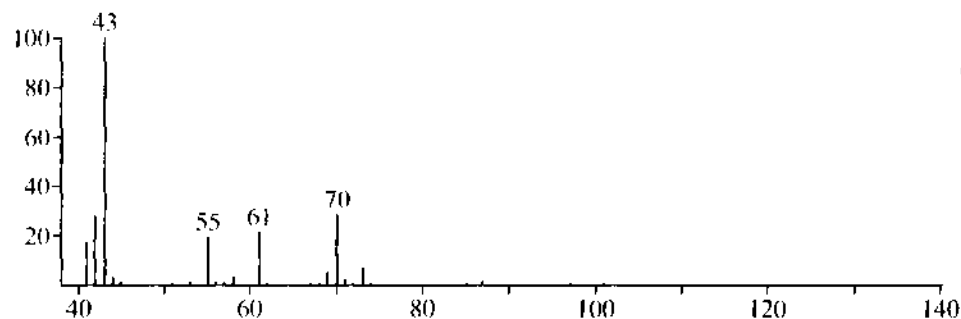
CN: pyrazine, 2,6-dimethyl-

Synonyms: none

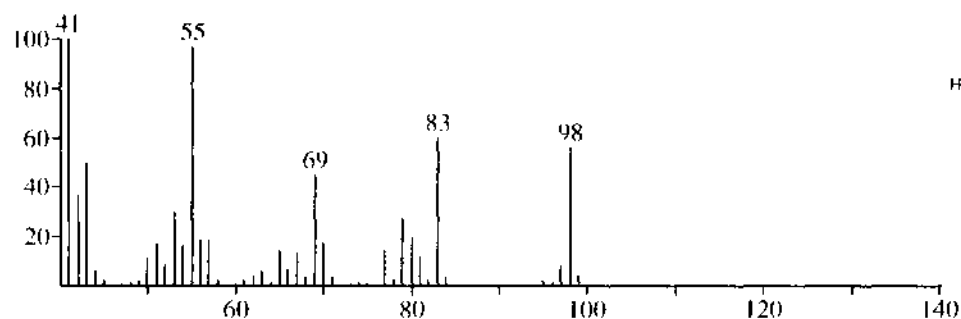
Source: Aldrich Chem.



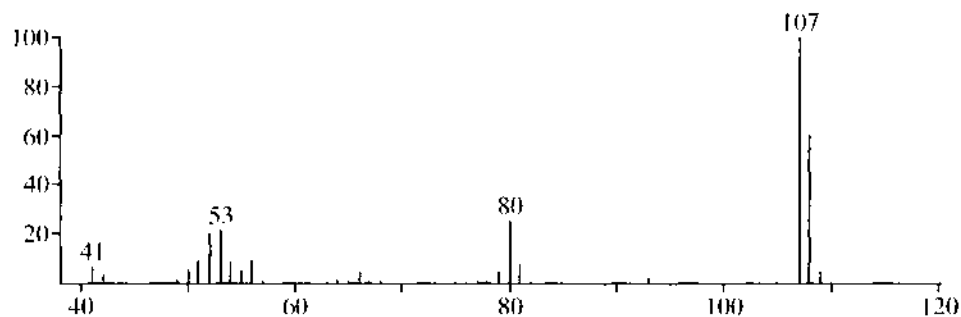
RT: 5.25 AI: 911 KI: 914 **Amyl acetate**
 CAS#: 628-63-7 MF: C₇H₁₄O₂ FW: 130 MSD LIB#: 128
 CN: acetic acid, pentyl ester
 Synonyms: pentyl acetate; banana oil; birnenöl; pear oil
 Source: local dry cleaner store



RT: 5.29 AI: 912 KI: 916 **Hexadienol <(2E,4E)->**
 CAS#: 17102-64-6 MF: C₆H₁₀O FW: 98 MSD LIB#: 2098
 CN: 2,4-hexadien-1-ol, (2E,4E)-
 Synonyms: sorbic alcohol; sorbinol; trans-trans-2,4-hexadienol
 Source: Bedoukian Res.



RT: 5.29 AI: 912 KI: 916 **Pyrazine <2-ethyl->**
 CAS#: 13925-00-3 MF: C₆H₈N₂ FW: 108 MSD LIB#: 54
 CN: pyrazine, ethyl-
 Synonyms: ethylpyrazine
 Source: Aldrich Chem.



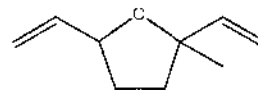
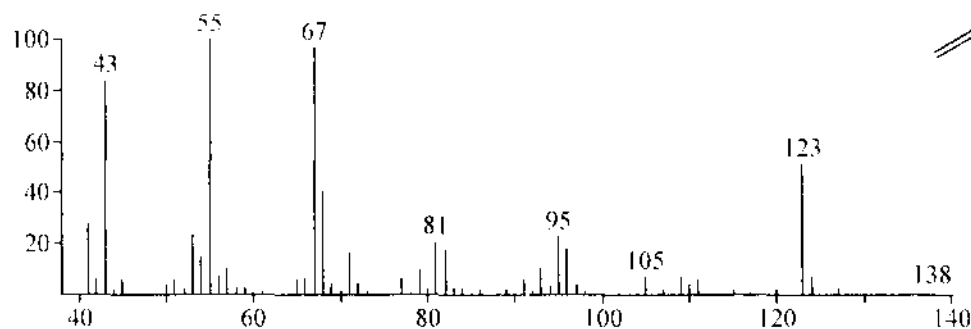
RT: 5.29 AI: 912 KI: 916 **Tetrahydrofuran <2,5-diethenyl-2-methyl->**

CAS#: 104188-15-0 MF: C₉H₁₄O FW: 138 MSD LIB#: 228

CN: furan, 2,5-diethenyltetrahydro-2-methyl-

Synonyms: none

Source: *Artemisia tridentata*, SLC, Utah, RP Adams #5577



RT: 5.32 AI: 913 KI: 917 **Anisole**

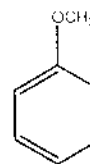
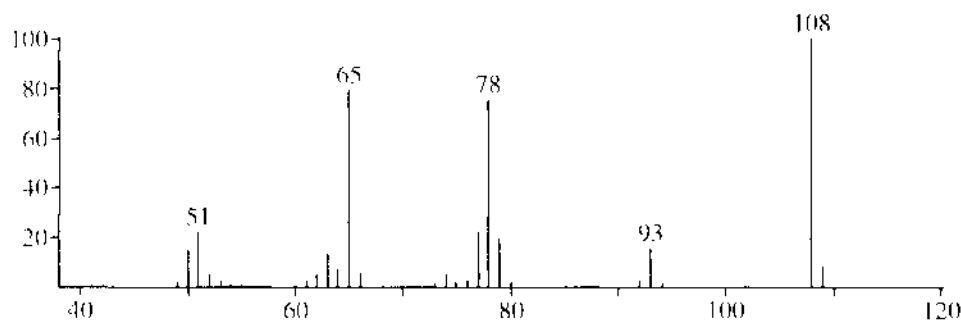
CAS#: 100-66-3 MF: C₇H₈O FW: 108 MSD LIB#: 171

CN: benzene, methoxy-

Synonyms: phenyl methyl ether; phenoxymethane

Source: Aldrich Chem.; 0.60% *Tuber melanosporum*, JECOR 1:281(1989);

0.26% *Aquilaria agallocho*; 0.22% *Gardenia jasminoides*



RT: 5.32 AI: 913 KI: 917 **Hexenyl formate <(3Z)->**

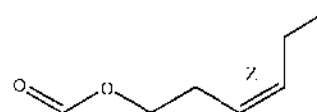
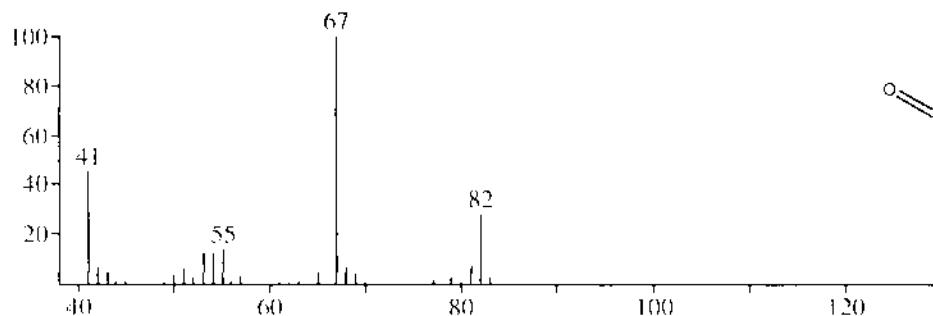
CAS#: 33467-73-1 MF: C₇H₁₂O₂ FW: 128 MSD LIB#: 1586

CN: 3-hexen-1-ol, formate, (Z)-

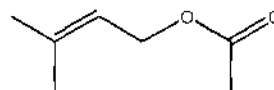
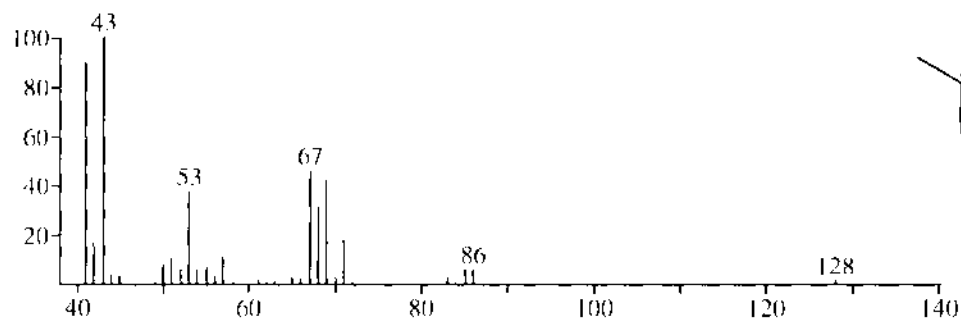
Synonyms: cis-3-hexenyl formate

Source: Aldrich Chem.; 1.20% *Viola odorata*, Phytochem. 31:571(1992);

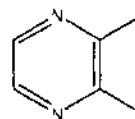
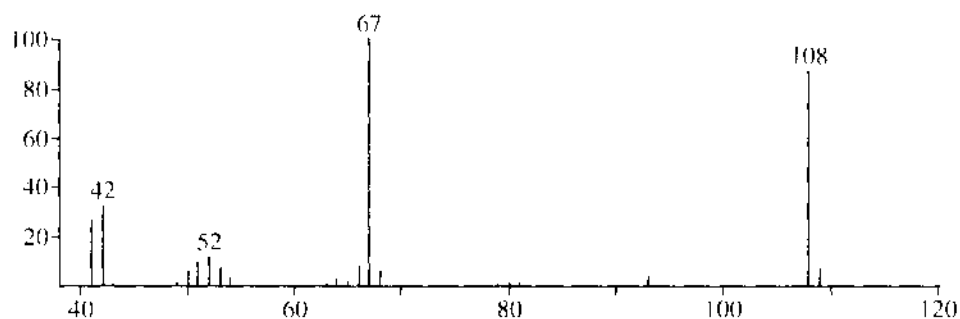
0.11% *Citrus reticulata*; 0.11% *Hyacinthus orientalis*



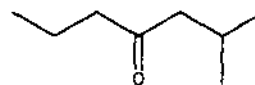
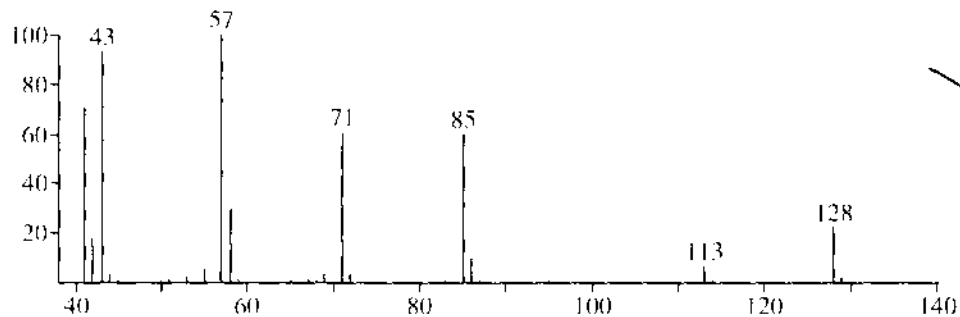
RT: 5.35 AI: 914 KI: 919 **Buten-1-ol, 3-methyl-2-, acetate**
 CAS#: 1191-16-8 MF: C₇H₁₂O₂ FW: 128 MSD LIB#: 1712
 CN: 2-buten-1-ol, 3-methyl-, acetate
 Synonyms: prenyl acetate, dimethylallyl acetate
 Source: Aldrich Chem.



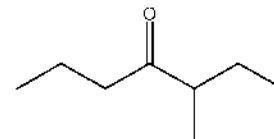
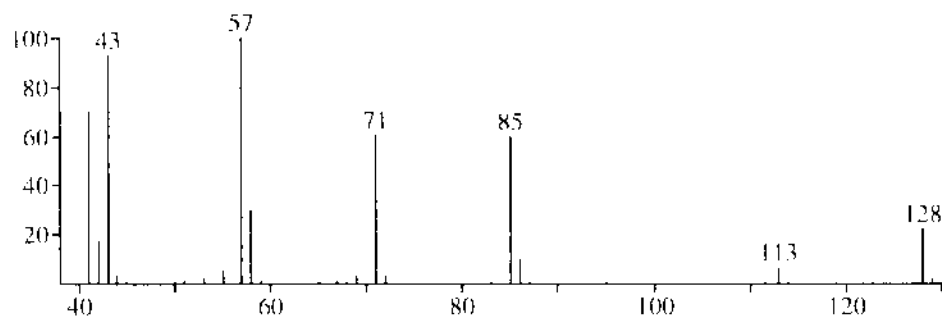
RT: 5.38 AI: 915 KI: 920 **Pyrazine <2,3-dimethyl->**
 CAS#: 5910-89-4 MF: C₆H₈N₂ FW: 108 MSD LIB#: 60
 CN: pyrazine, 2,3-dimethyl-
 Synonyms: none
 Source: Aldrich Chem.



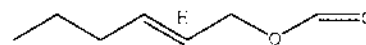
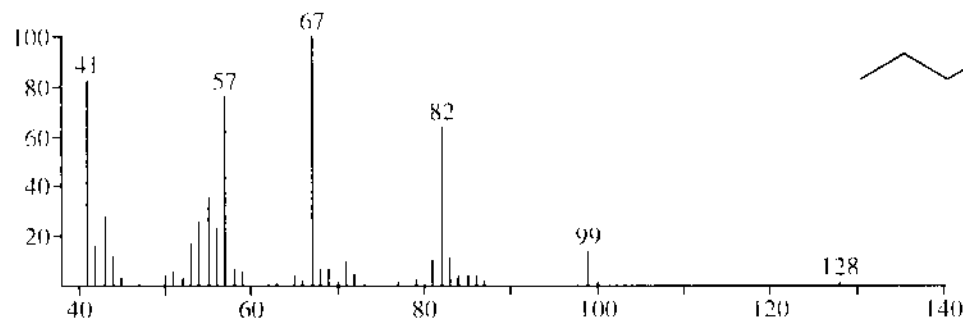
RT: 5.46 AI: 918 KI: 923 **Heptanone <2-methyl-4->**
 CAS#: 626-33-5 MF: C₈H₁₆O FW: 128 MSD LIB#: 783
 CN: 4-heptanone, 2-methyl-
 Synonyms: isobutyl propyl ketone
 Source: ref. epd. ex CA McDaniel



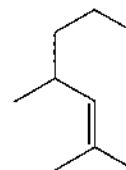
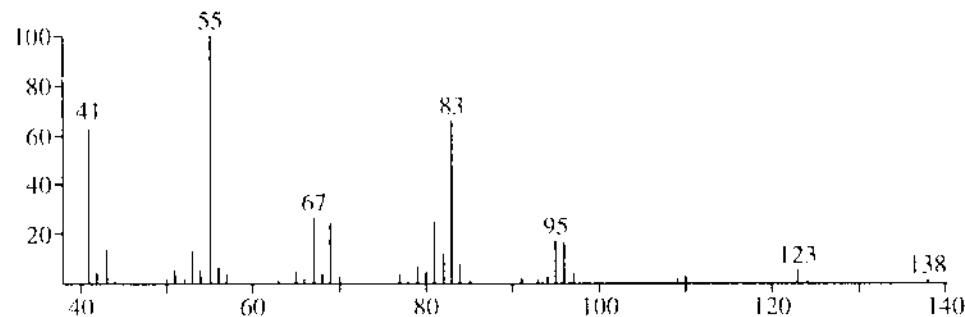
RT: 5.46 AI: 918 KI: 923 **Heptanone <3-methyl-4-> (impure)**
 CAS#: 15726-15-5 MF: C₈H₁₆O FW: 128 MSD LIB#: 784
 CN: 4-heptanone, 3-methyl-
 Synonyms: none
 Source: ref. epd. ex CA McDaniel



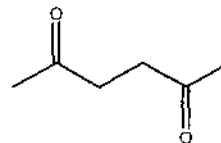
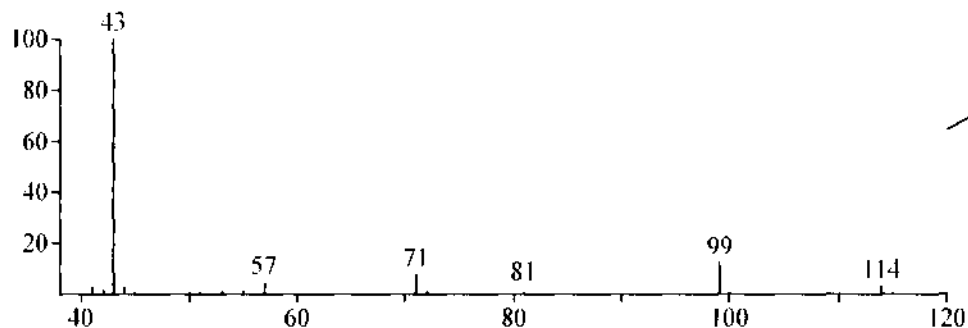
RT: 5.46 AI: 918 KI: 923 **Hexenyl formate <(2E)->**
 CAS#: 53398-78-0 MF: C₇H₁₂O₂ FW: 128 MSD LIB#: 1984
 CN: 2-hexen-1-ol, formate, (2E)-
 Synonyms: trans-2-hexenyl formate
 Source: Bedonkian Res. ex JJ Brophy



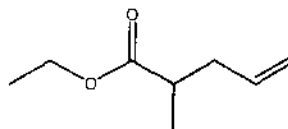
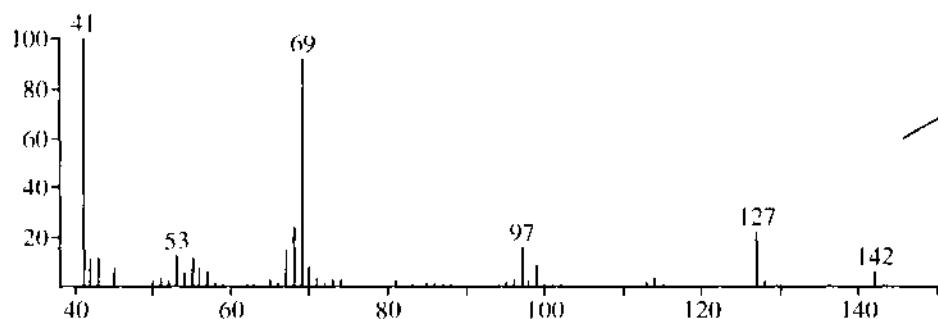
RT: 5.46 AI: 918 KI: 923 **Isocitronellene**
 CAS#: 85006-04-8 MF: C₁₀H₁₈ FW: 138 MSD LIB#: 861
 CN: 1,6-octadiene, 5,7-dimethyl-
 Synonyms: none
 Source: Aldrich Chem.



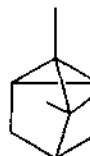
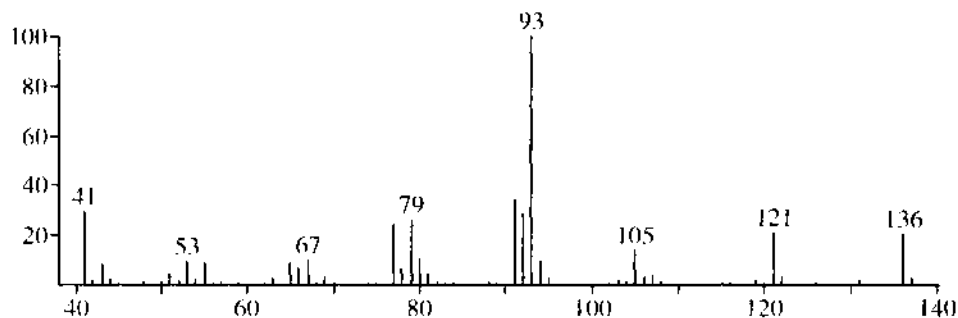
RT: 5.48 AI: 919 KI: 924 **Acetylacetylone**
 CAS#: 110-13-4 MF: C₆H₁₀O₂ FW: 114 MSD LIB#: 8
 CN: 2,5-hexanedione
 Synonyms: none
 Source: Fluka Chem. ex Art Tucker



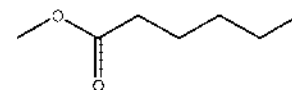
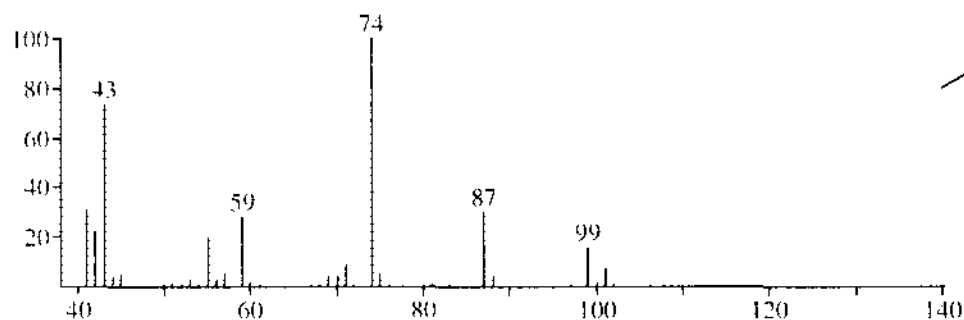
RT: 5.53 AI: 921 KI: 926 **Ethyl 2-methyl-4-pentenoate**
 CAS#: 53399-81-8 MF: C₈H₁₄O₂ FW: 142 MSD LIB#: 2147
 CN: 4-pentenoic acid, 2-methyl-, ethyl ester
 Synonyms: none
 Source: Bedoukian Res.



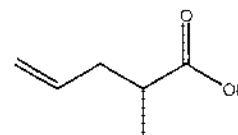
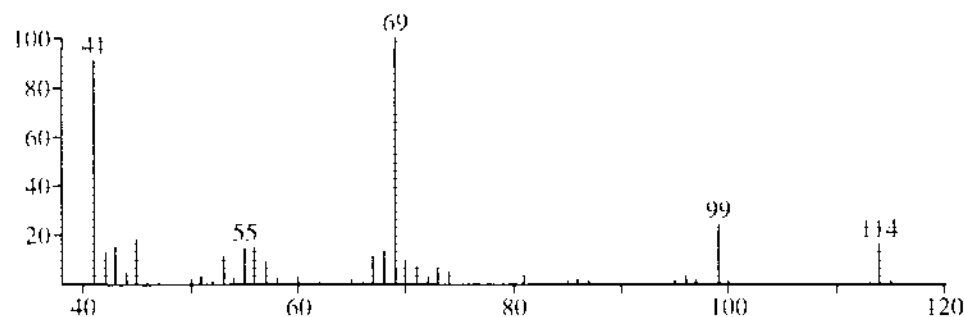
RT: 5.53 AI: 921 KI: 926 **Tricyclene**
 CAS#: 508-32-7 MF: C₁₀H₁₆ FW: 136 MSD LIB#: 913
 CN: tricyclo(2.2.1.0^{2,6})heptane, 1,7,7-trimethyl-
 Synonyms: cyclone
 Source: *Juniperus monticola* f. *compacta* leaf oil, RP Adams #2580;
 57.90% *Cordia cylindrostachya*, JFQR 2:209(1990); 6.76% *Tsuga canadensis* (conifer);
 2.91% *Anaphalis margaritacea*



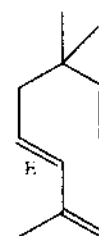
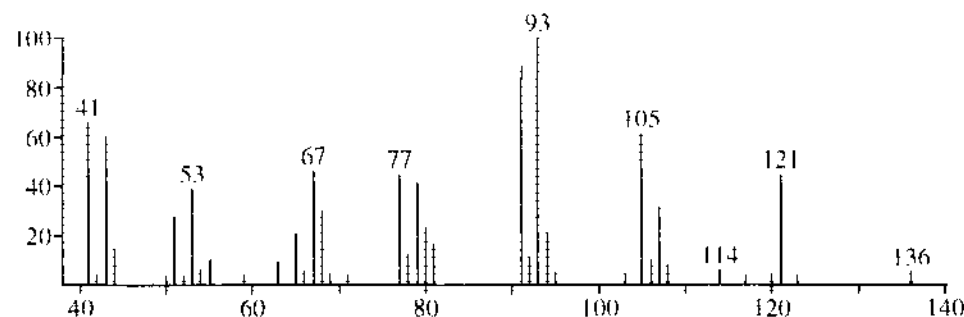
RT: 5.54 AI: 921 KI: 927 **Methyl hexanoate**
 CAS#: 106-70-7 MF: C₇H₁₄O₂ FW: 130 MSD LIB#: 1099
 CN: hexanoic acid, methyl ester
 Synonyms: methyl caproate
 Source: Aldrich Chem.; 6.04% *Chaenomeles speciosa*, JEOR 6:81(1994);
 2.00% *Magnolia grandiflora*; 1.03% *Michelia alba* (flower absolute)



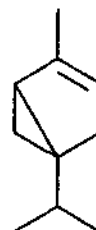
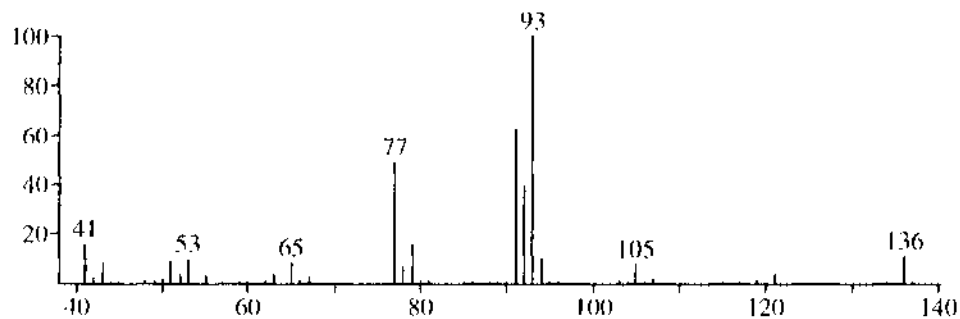
RT: 5.59 AI: 923 KI: 929 **Pentenoic acid <2-methyl-4->**
 CAS#: 1575-74-2 MF: C₆H₁₀O₂ FW: 114 MSD LIB#: 1968
 CN: 4-pentenoic acid, 2-methyl-
 Synonyms: methyl-4-pentenoic acid, 2-
 Source: Bedoukian Res. ex JJ Brophy



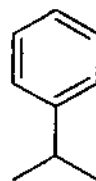
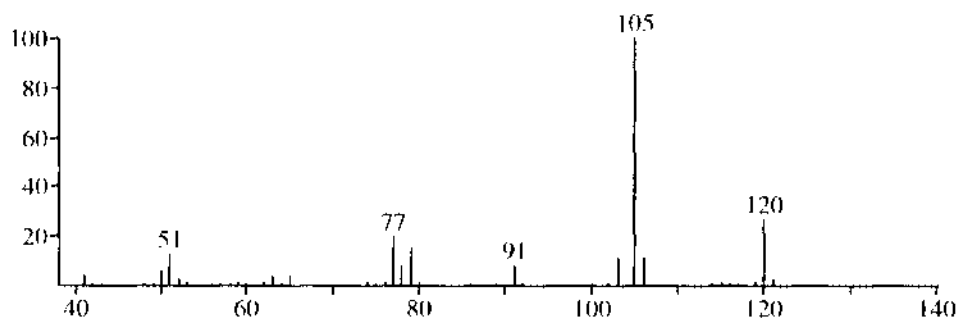
RT: 5.61 AI: 923 KI: 929 **Artemisia triene**
 CAS#: 18383-70-5 MF: C₁₀H₁₆ FW: 136 MSD LIB#: 213
 CN: 1,3,6-heptatriene, 2,5,5-trimethyl-(E)-
 Synonyms: none
 Source: *Artemisia perscia* oil ex P. Weyerstahl; 1.40% *Artemisia abaensis*,
 p. 272, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong(1993);
 0.64% *Artemisia occidentalis-sichuanensis*; 0.15% *Artemisia judaica*



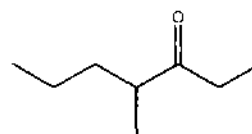
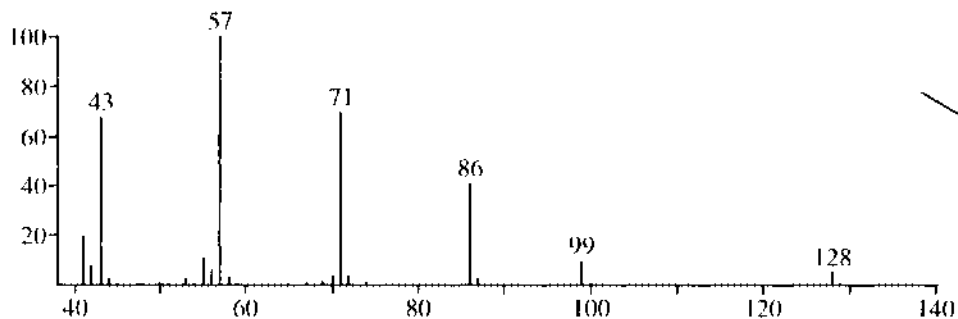
RT: 5.62 AI: 924 KI: 930 **Thujene <α>**
 CAS#: 2867-05-2 MF: C₁₀H₁₆ FW: 136 MSD LIB#: 911
 CN: bicyclo(3.1.0)hex-2-ene, 2-methyl-5-(1-methylethyl)-
 Synonyms: origanene
 Source: *Juniperus monticola* f. *compacta* leaf oil, RP Adams #2580;
 61.36% *Boswellia serrata*, FIJ 2:99(1987); 8.23% *Ocimum gratissimum*;
 7.75% *Cinnamomum burmannii*



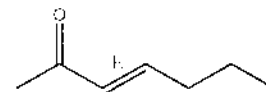
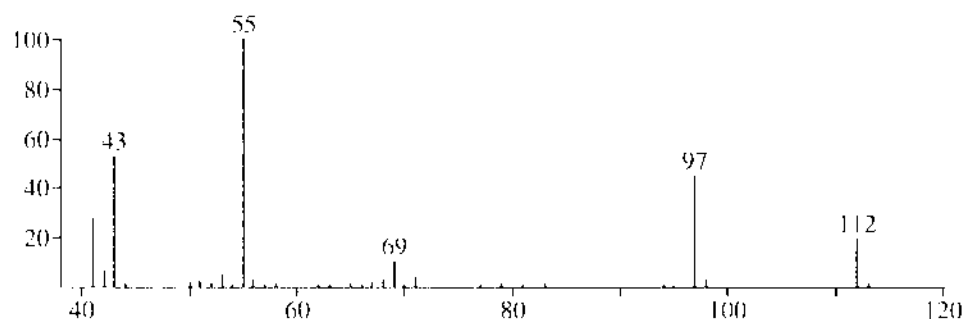
RT: 5.63 AI: 924 KI: 930 **Cumene**
 CAS#: 98-82-8 MF: C₉H₁₂ FW: 120 MSD LIB#: 502
 CN: benzene, (1-methylethyl)-
 Synonyms: cumol; 2-phenylpropane; isopropylbenzene
 Source: Hopkins-Williams, UK ex Keith Harkiss; 0.72% *Thuja occidentalis*,
 J. Wood Chem. Technol. 8:561(1988); 0.01% *Apium graveolens*



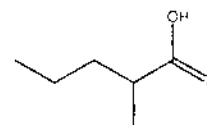
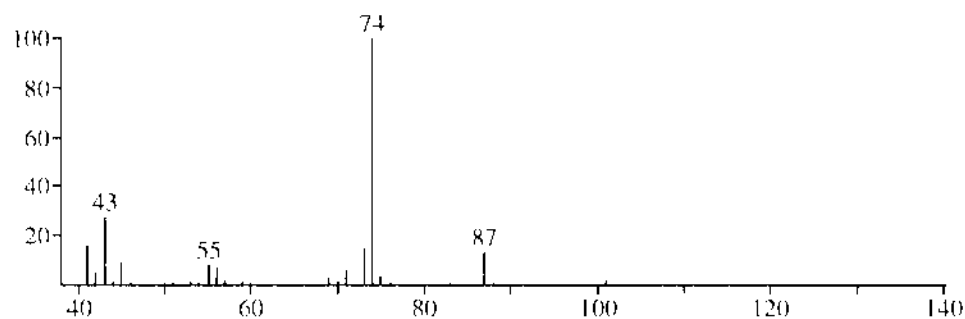
RT: 5.66 AI: 925 KI: 931 **Heptanone <4-methyl-3>**
 CAS#: 6137-11-7 MF: C₈H₁₆O FW: 128 MSD LIB#: 2012
 CN: 3-heptanone, 4-methyl-
 Synonyms: none
 Source: Aldrich Chem. ex JJ Brophy



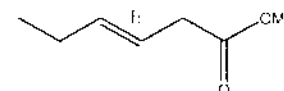
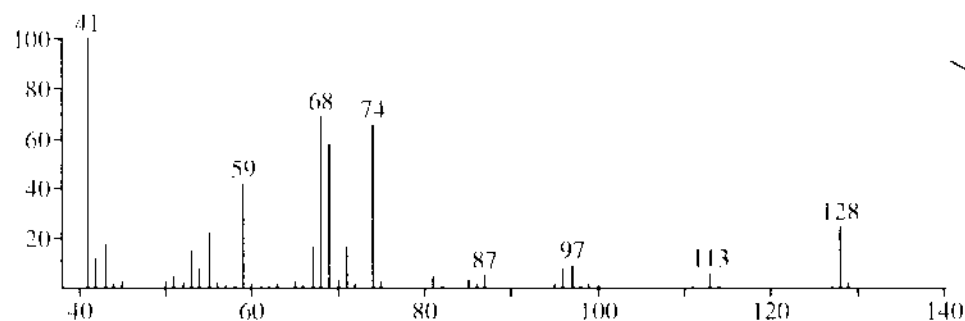
RT: 5.71 AI: 927 KI: 933 **Hepten-2-one <(3E)->**
 CAS#: 5609-09-6 MF: C₇H₁₂O FW: 112 MSD LIB#: 2019
 CN: 3-hepten-2-one, (3E)-
 Synonyms: trans-3 hepten-2-one
 Source: Bedoukian Res. ex JJ Brophy



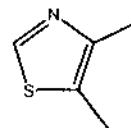
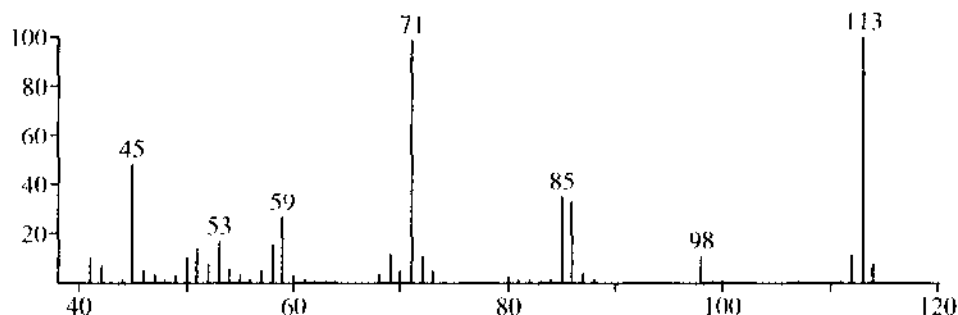
RT: 5.71 AI: 927 KI: 933 **Pentanoic acid <2-methyl->**
 CAS#: 97-61-0 MF: C₆H₁₂O₂ FW: 116 MSD LIB#: 1971
 CN: pentanoic acid, 2-methyl-
 Synonyms: Valeric acid, 2-methyl
 Source: Bedoukian Res. ex JJ Brophy



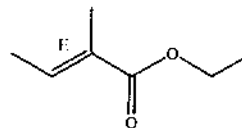
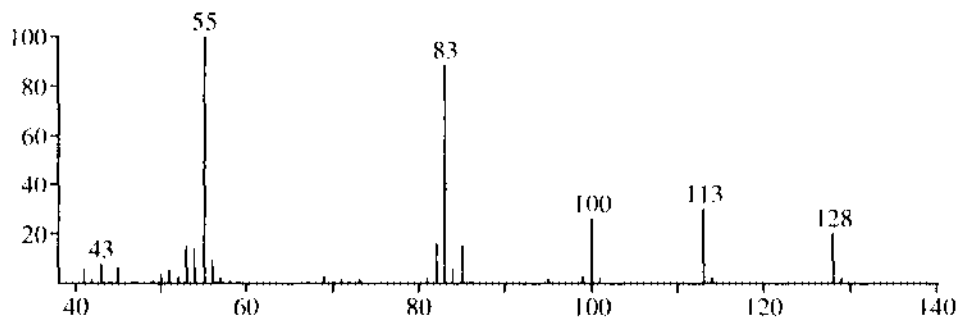
RT: 5.72 AI: 927 KI: 934 **Methyl-(3E)-hexenoate**
 CAS#: 13894-61-6 MF: C₇H₁₂O₂ FW: 128 MSD LIB#: 2046
 CN: 3-hexenoic acid, methyl ester, (3E)-
 Synonyms: none
 Source: Bedoukian Res.



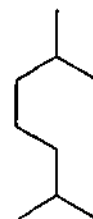
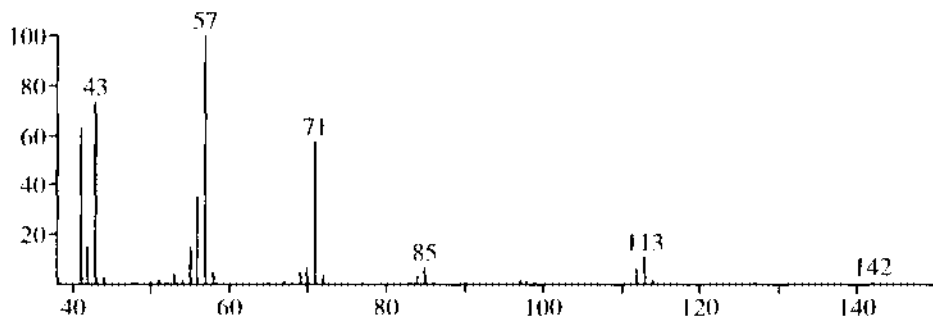
RT: 5.75 AI: 928 KI: 935 **Thiazole <4,5-dimethyl->**
 CAS#: 3581-91-7 MF: C5 H7 N S FW: 113 MSD LIB#: 63
 CN: thiazole, 4,5-dimethyl-
 Synonyms: none
 Source: Aldrich Chem.



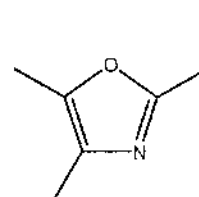
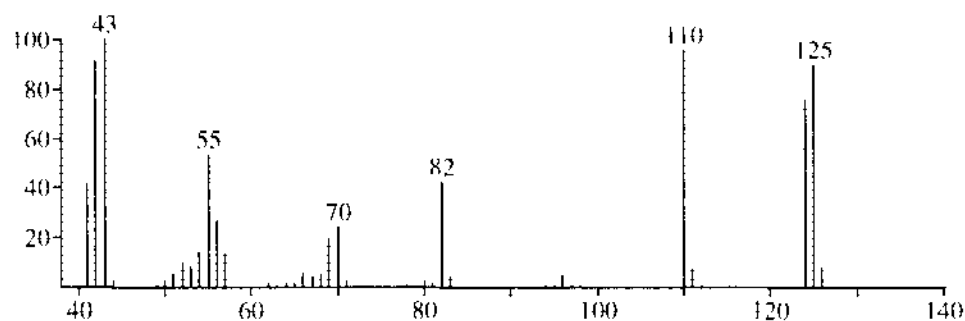
RT: 5.78 AI: 929 KI: 936 **Ethyl tiglate**
 CAS#: 5837-78-5 MF: C7 H12 O2 FW: 128 MSD LIB#: 1960
 CN: 2-butenic acid, 2-methyl-, ethyl ester, (E)-
 Synonyms: tiglic acid, ethyl ester; cortonic acid, 2-methyl-, ethyl ester, (E)-
 Source: Bedoukian Res. ex JJ Brophy; 0.08% *Gardenia jasminoides*,
 p. 90, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong (1993);
 0.01% *Spondias cytherea*



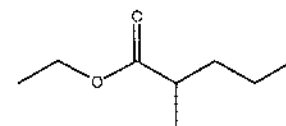
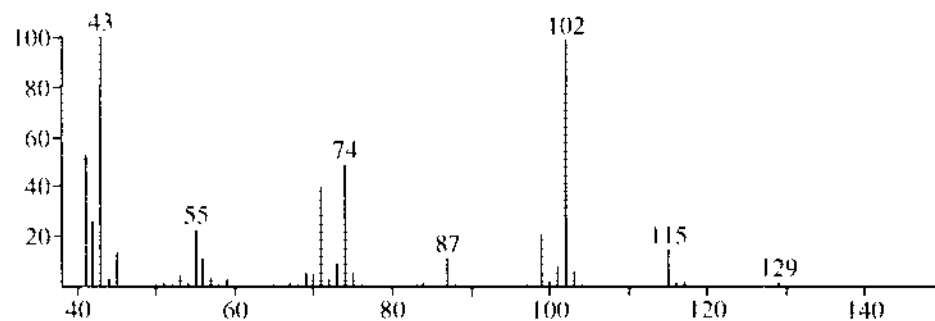
RT: 5.80 AI: 930 KI: 937 **Citronellene <tetrahydro->**
 CAS#: 2051-30-1 MF: C10 H22 FW: 142 MSD LIB#: 454
 CN: octane, 2,6-dimethyl-
 Synonyms: none
 Source: Fluka Chem.



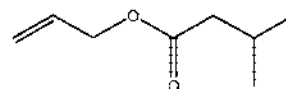
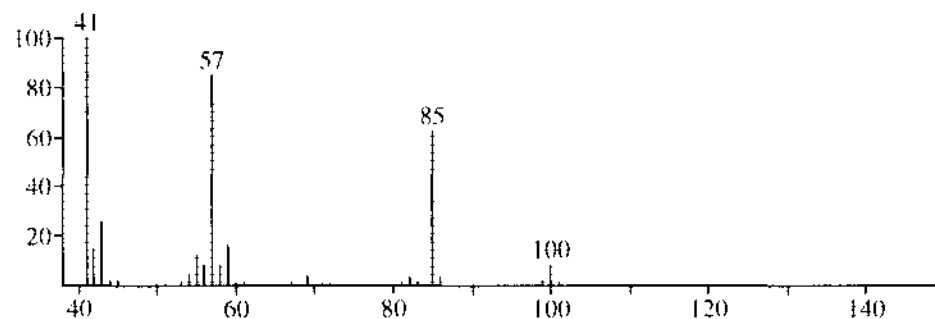
RT: 5.80 AE: 930 KI: 937 **Oxazole <2-ethyl-4,5-dimethyl->**
 CAS#: 53833-30-0 MF: C7 H11 N O FW: 125 MSD LIB#: 1229
 CN: 2-ethyl-4,5-dimethyl oxazole
 Synonyms: none
 Source: Bedoukian Res. ex Art Tucker



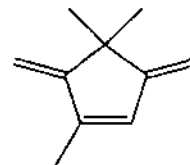
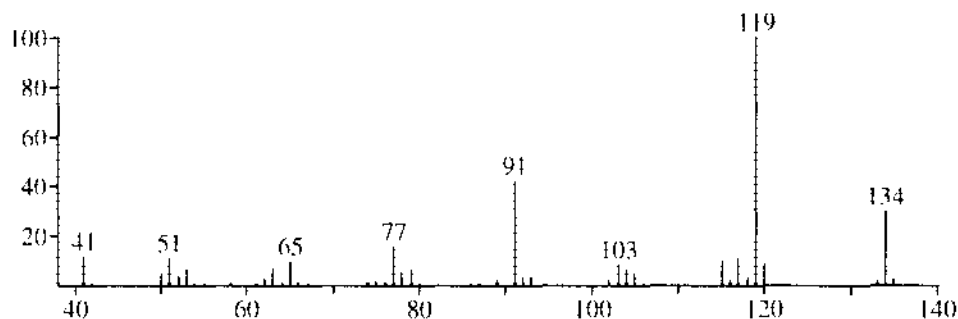
RT: 5.81 AE: 930 KI: 937 **Ethyl 2-methyl pentanoate**
 CAS#: 39255-32-8 MF: C8 H16 O2 FW: 144 MSD LIB#: 2148
 CN: pentanoic acid, 2-methyl-, ethyl ester
 Synonyms: ethyl 2-methylvalerate
 Source: Bedoukian Res.



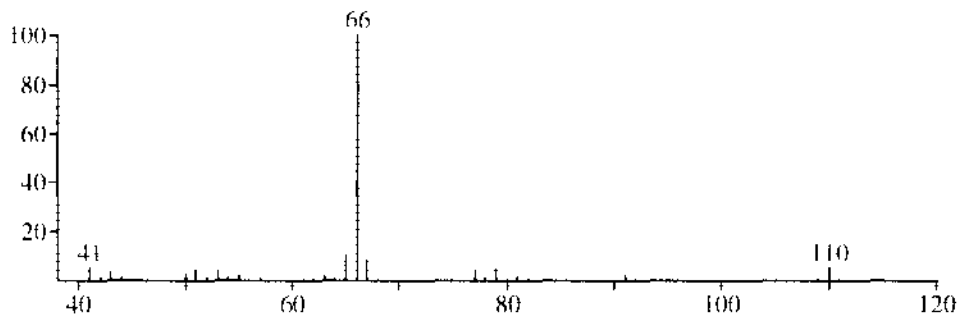
RT: 5.82 AE: 931 KI: 938 **Allyl isovalerate**
 CAS#: 2835-39-4 MF: C8 H14 O2 FW: 142 MSD LIB#: 112
 CN: butanoic acid, 3-methyl-, 2-propenyl ester
 Synonyms: allyl 3-methylbutanoate; 2-propenyl 3-methylbutanoate
 Source: Aldrich Chem.



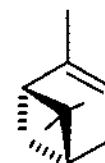
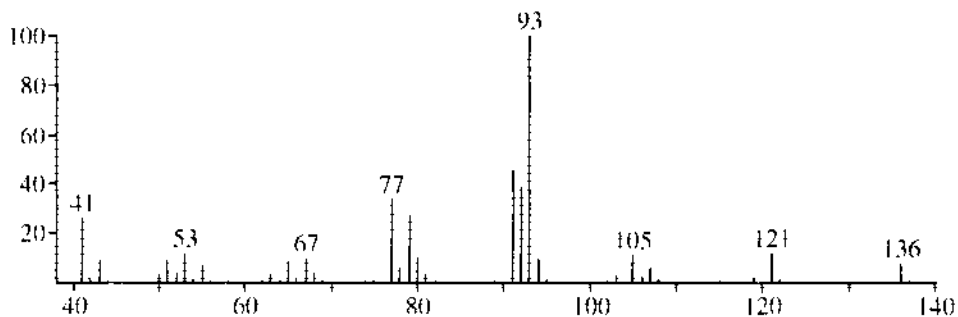
RT: 5.83 AI: 931 KI: 938 **Cyclopentene <3,5-dimethylene-1,4,4-trimethyl->**
 CAS#: 000-00-0 MF: C₁₀H₁₄ FW: 134 MSD LIB#: 2091
 CN: cyclopentene <3,5-dimethylene-1,4,4-trimethyl->
 Synonyms: none
 Source: *Lavandula luisieri* oil ex Nicolas Baldovini



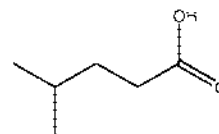
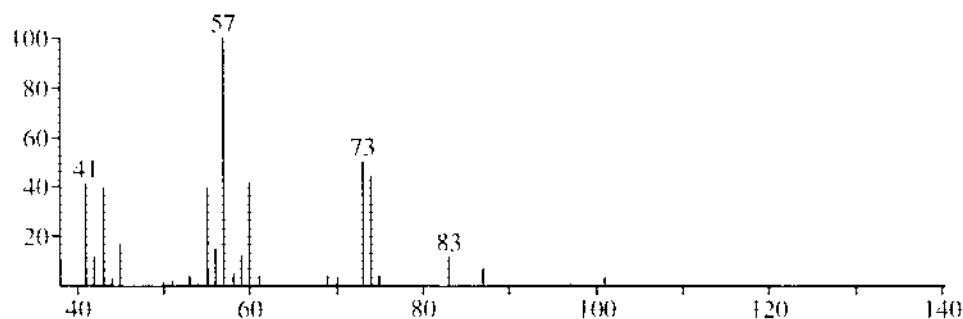
RT: 5.85 AI: 932 KI: 939 **Norbornen-2-ol <endo-5->**
 CAS#: 106928-44-3 MF: C₇H₁₀O FW: 110 MSD LIB#: 1178
 CN: bicyclo[2.2.1]hept-5-en-2-ol, (1R-endo)-
 Synonyms: none
 Source: ref. epd. ex E. von Rudloff



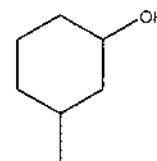
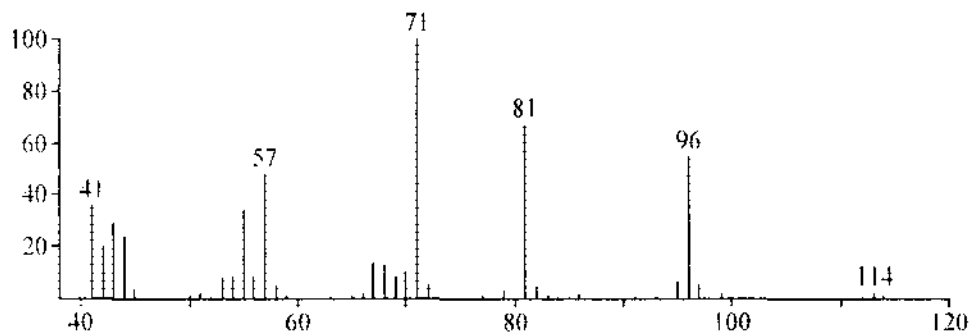
RT: 5.85 AI: 932 KI: 939 **Pinene <α->**
 CAS#: 80-56-8 MF: C₁₀H₁₆ FW: 136 MSD LIB#: 912
 CN: bicyclo[3.1.1]hept-3-ene, 2,6,6-trimethyl-
 Synonyms: 2-pinene
 Source: *Juniperus lucayana* leaf oil. RP Adams #2863; 88.13% *Pinus kesiya*.
 The Chemical Composition of *Pinus kesiya* oil from Yunnan, J-L Lo, in: Flav. & Frag.:
 A World Perspective, Lawrence, et al., (eds.), Proc. 10th Intl. Cong. Ess. Oils., Wash, DC(1996);
 87.40% *Sequoiadendron giganteum*; 78.61% *Pistacia lenticus*



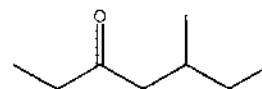
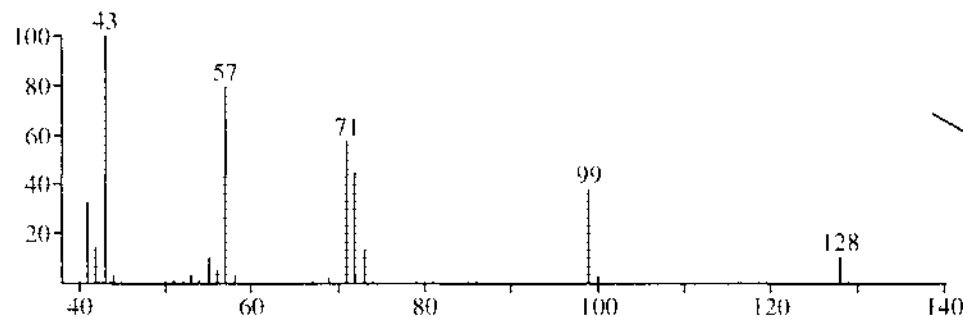
RT: 5.89 AE: 933 KI: 940 **Pentanoic acid <4-methyl->**
CAS#: 646-07-1 MF: C₆H₁₂O₂ FW: 116 MSD LIB#: 1986
CN: pentanoic acid, 4-methyl-
Synonyms: valeric acid, 4-methyl-; isocaproic acid
Source: Bedoukian Res. ex JJ Brophy



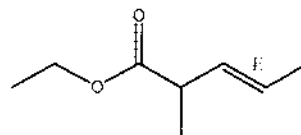
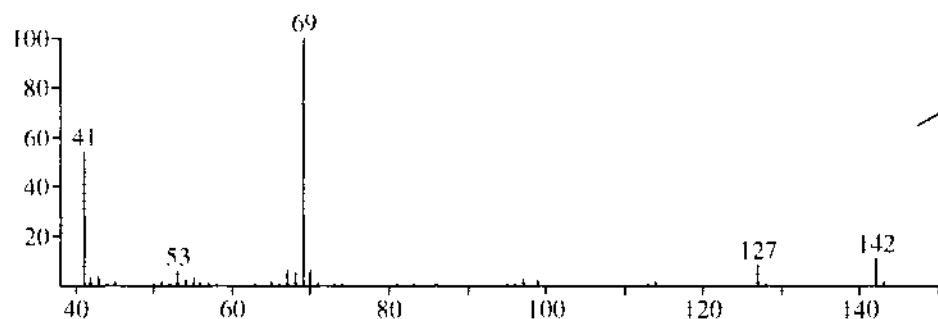
RT: 5.95 AE: 935 KI: 943 **Cyclohexanol <3-methyl->**
CAS#: 591-23-1 MF: C₇H₁₄O FW: 114 MSD LIB#: 2011
CN: cyclohexanol, 3-methyl-
Synonyms: none
Source: Fluka Chem. ex JJ Brophy



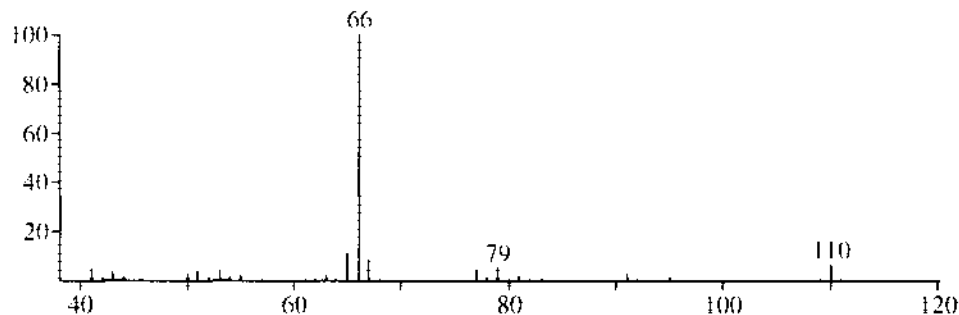
RT: 5.98 AE: 936 KI: 944 **Heptanone <5-methyl-3->**
CAS#: 541-85-5 MF: C₈H₁₆O FW: 128 MSD LIB#: 785
CN: heptanone, 5-methyl-3-
Synonyms: 3-methylbutyl ethyl ketone
Source: Aldrich Chem.



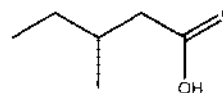
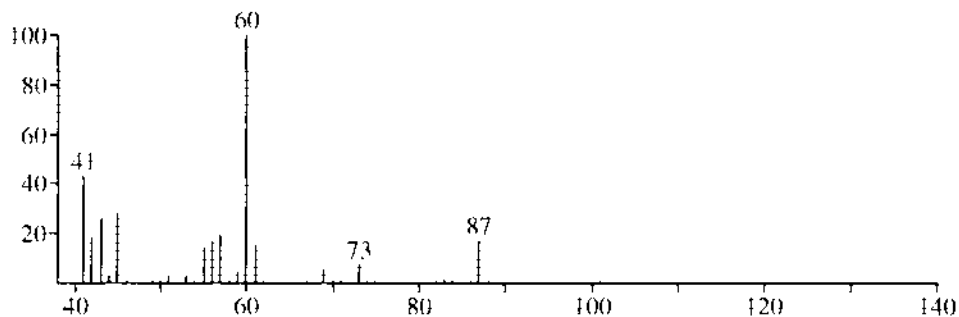
RT: 6.00 AI: 937 K1: 944 **Fruitaleur**
 CAS#: 1617-23-8 MF: C₈H₁₄O₂ FW: 142 MSD LIB#: 2037
 CN: 3-pentenoic acid, 2-methyl-, ethyl ester
 Synonyms: ethyl 2-methyl-3-pentenoate
 Source: Bedoukian Res.



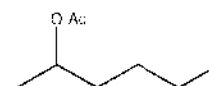
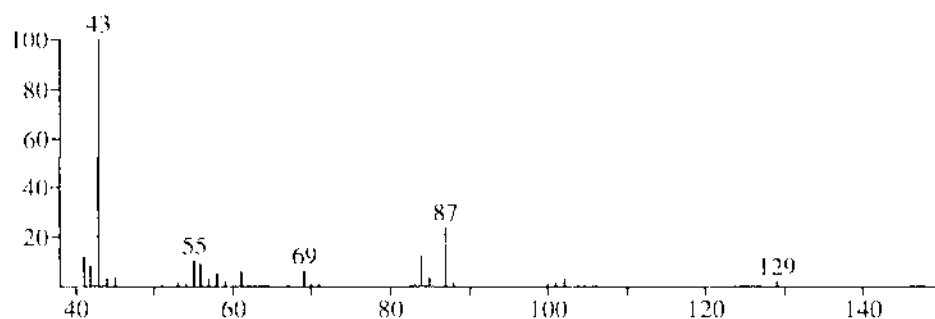
RT: 6.05 AI: 939 K1: 946 **Norbornen-2-ol <exo-5->**
 CAS#: 71030-14-3 MF: C₇H₁₀O FW: 110 MSD LIB#: 1181
 CN: bicyclo[2.2.1]hept-5-en-2-ol, (1S-exo)-
 Synonyms: none
 Source: ref. cpd. ex E. von Rudloff



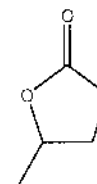
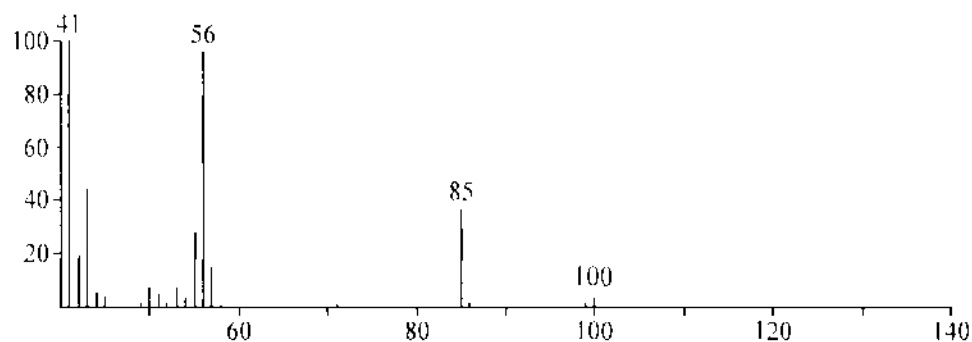
RT: 6.05 AI: 939 K1: 946 **Valeric acid <3-methyl->**
 CAS#: 105-43-1 MF: C₆H₁₂O₂ FW: 116 MSD LIB#: 1532
 CN: pentanoic acid, 3-methyl-
 Synonyms: 3-methylpentanoic acid
 Source: acetoxyhexane, 2- ex JJ Brophy



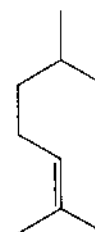
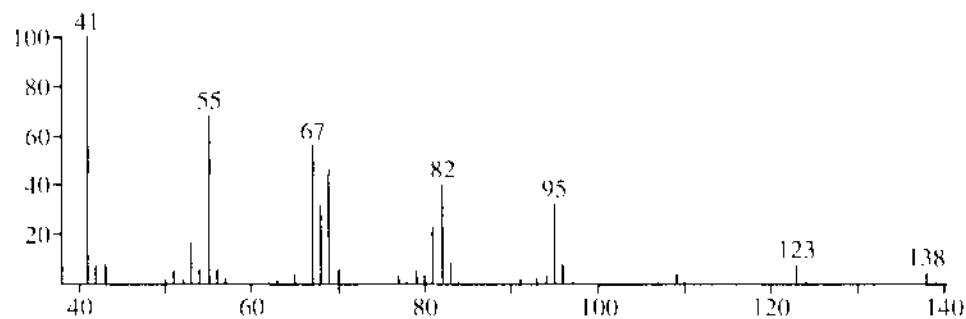
RT: 6.10 AI: 941 KI: 948 **Acetoxyhexane <2->**
 CAS#: 5953-49-1 ME: C₈H₁₆O₂ FW: 144 MSD LIB#: 2016
 CN: 2-hexanol, acetate
 Synonyms: hex-2-yl ethanoate
 Source: acetoxyhexane, 2- ex JJ Brophy



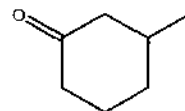
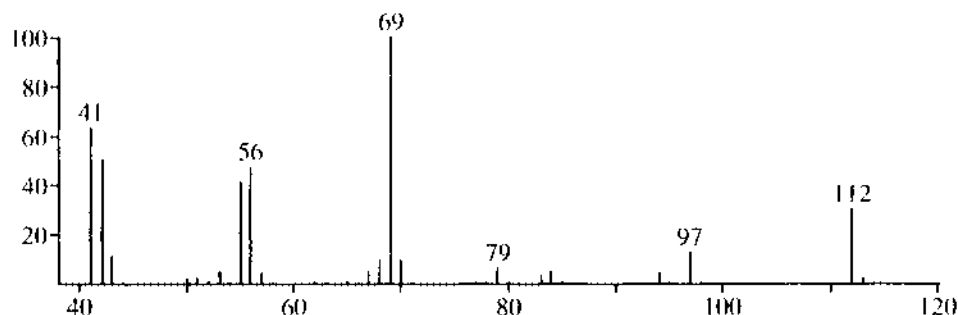
RT: 6.10 AI: 941 KI: 948 **Valerolactone <γ->**
 CAS#: 108-29-2 ME: C₅H₈O₂ FW: 100 MSD LIB#: 1690
 CN: 2(3H)-furanone, dihydro-5-methyl-
 Synonyms: γ-pentalactone
 Source: Aldrich Chem.



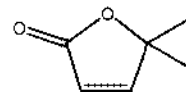
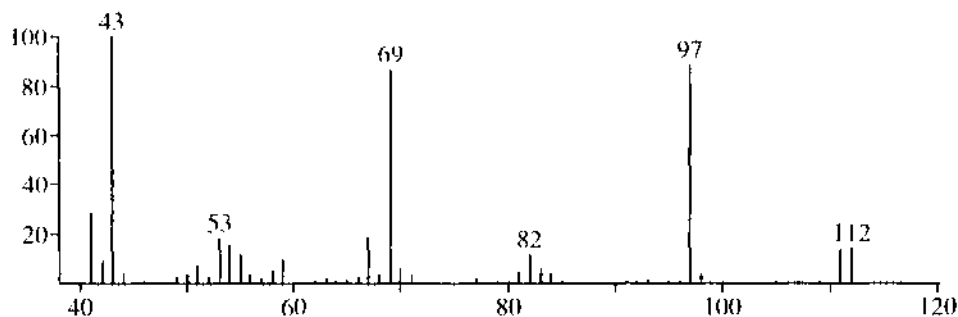
RT: 6.15 AI: 942 KI: 950 **Citronellene <β->**
 CAS#: 2436-90-0 ME: C₁₀H₁₈ FW: 138 MSD LIB#: 453
 CN: 1,6-octadiene, 3,7-dimethyl-
 Synonyms: dihydro myrcene
 Source: Fluka Chem. ex K. Harkiss



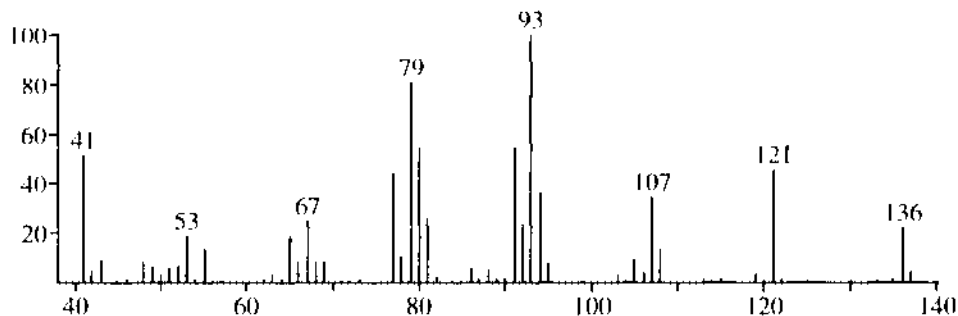
RT: 6.21 AI: 945 KI: 952 **Cyclohexanone <3-methyl-> (impure)**
 CAS#: 591-24-2 MF: C₇H₁₂O FW: 112 MSD LIB#: 532
 CN: cyclohexanone, 3-methyl-
 Synonyms: none
 Source: ref. cpd. ex Art Tucker



RT: 6.21 AI: 945 KI: 952 **Methyl pent-2-enolide <4-> (impure)**
 CAS#: 20019-64-1 MF: C₆H₈O₂ FW: 112 MSD LIB#: 194
 CN: 2(5H)-furanone, 5,5-dimethyl-
 Synonyms: 4,4-dimethyl-2-butenolide
 Source: Armoise a davanone oil ex Guy Collin



RT: 6.22 AI: 945 KI: 952 **Fenchene <α->**
 CAS#: 471-84-1 MF: C₁₀H₁₆ FW: 136 MSD LIB#: 895
 CN: bicyclo(2.2.1)heptane, 7,7-dimethyl-2-methylene-
 Synonyms: none
 Source: *Juniperus angosturan* leaf oil, RP Adams #2665; 4.10% *Juniperus intermedia*,
 HJ 10:25(1995); 3.70% *Artemisia velutiorum*; 3.30% *Juniperus communis*



RT: 6.26 AI: 946 KI: 954 **Camphene**

CAS#: 79-92-5 MF: C₁₀H₁₆ FW: 136 MSD LIB#: 914

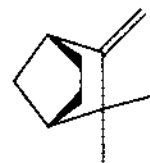
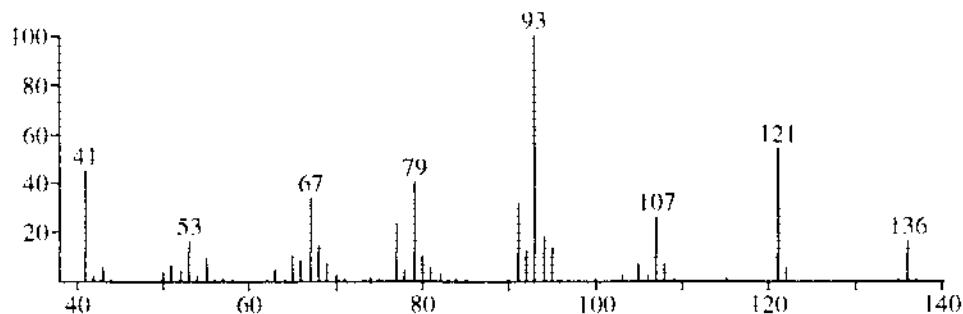
CN: 2,2-dimethyl-3-methylenbicyclo-(2.2.1)heptane

Synonyms: none

Source: *Juniperus lucayana* ex RP Adams #2863; common in conifers;

70.50% *Eucalyptus kironiana*, JEOR 7:215 (1995); 32.08% *Valeriana officinalis*;

29.97% *Abies sibirica*



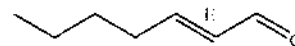
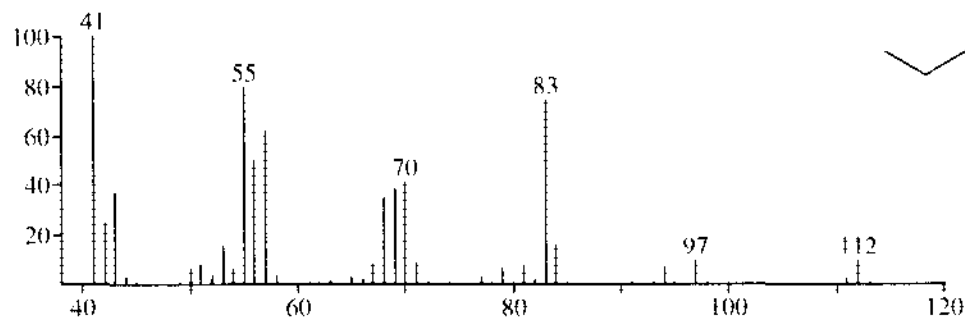
RT: 6.27 AI: 947 KI: 954 **Heptenal <(2E)->**

CAS#: 18829-55-5 MF: C₇H₁₂O FW: 112 MSD LIB#: 1942

CN: 2-heptenal, (E)-

Synonyms: butylacrolein, 3-; heptanal, trans-2-

Source: Bedoukian Res. ex JJ Brophy



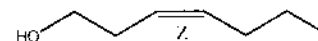
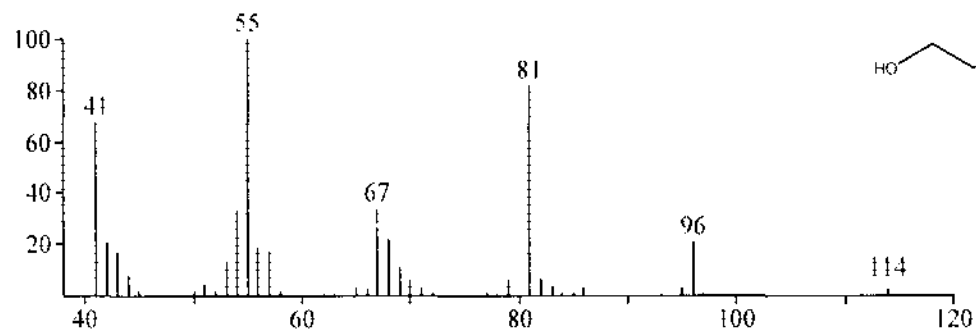
RT: 6.28 AI: 947 KI: 954 **Heptenol <(3Z)->**

CAS#: 1708-81-2 MF: C₇H₁₄O FW: 114 MSD LIB#: 2076

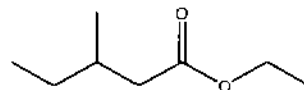
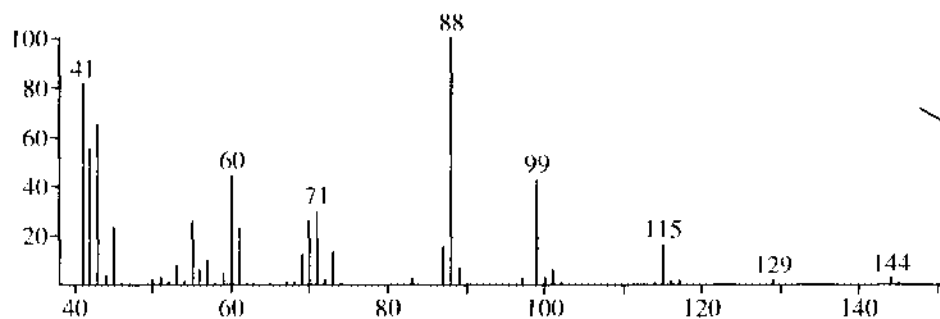
CN: 3-hepten-1-ol, (3Z)-

Synonyms: none

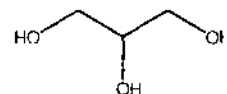
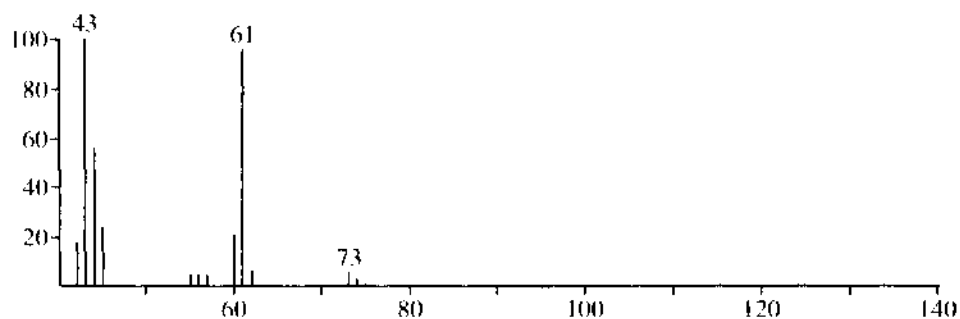
Source: Bedoukian Res.



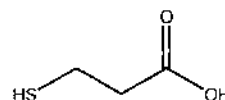
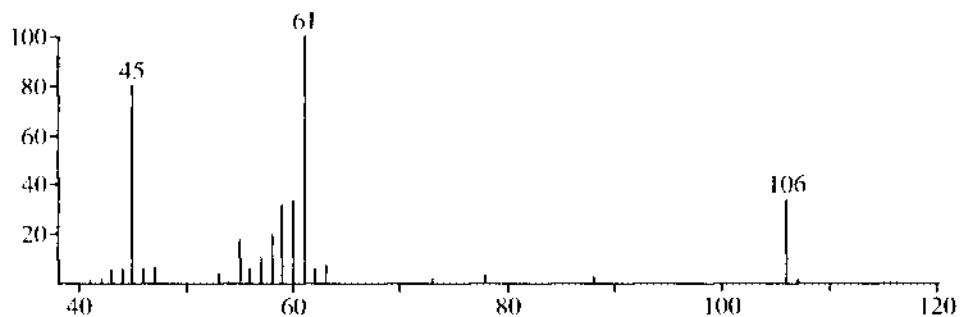
RT: 6.34 AI: 949 KI: 956 **Ethyl 3-methyl pentanoate**
 CAS#: 5870-68-8 MF: C₈H₁₆O₂ FW: 144 MSD LIB#: 2191
 CN: pentanoic acid, 3-methyl-, ethyl ester
 Synonyms: ethyl 3-methylvalerate
 Source: Bedoukian Res.



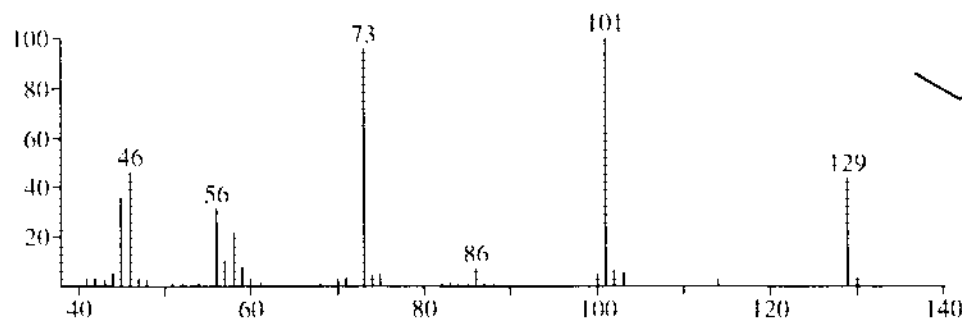
RT: 6.35 AI: 950 KI: 957 **Glycerol**
 CAS#: 56-81-5 MF: C₃H₈O₃ FW: 92 MSD LIB#: 1904
 CN: 1,2,3-propanetriol
 Synonyms: glycerin, glyceryl alcohol
 Source: Sigma Chem.



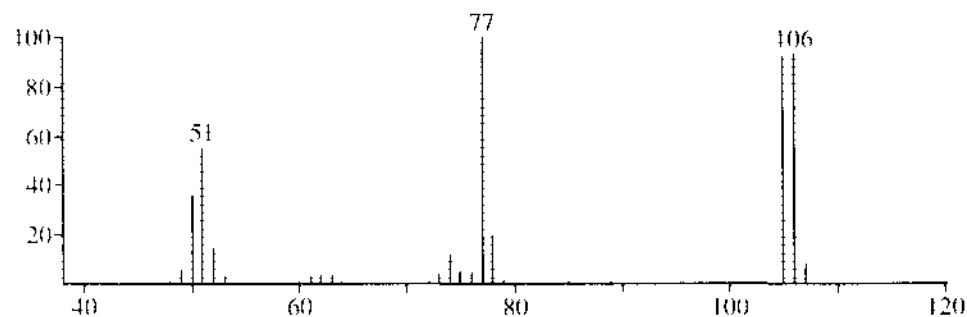
RT: 6.35 AI: 950 KI: 957 **Mercaptopropionic acid <2->**
 CAS#: 79-42-5 MF: C₃H₆O₂S FW: 106 MSD LIB#: 1651
 CN: 2-mercaptopropionic acid
 Synonyms: thiolactic acid, propionic acid<2-mercapto->
 Source: Aldrich Chem.



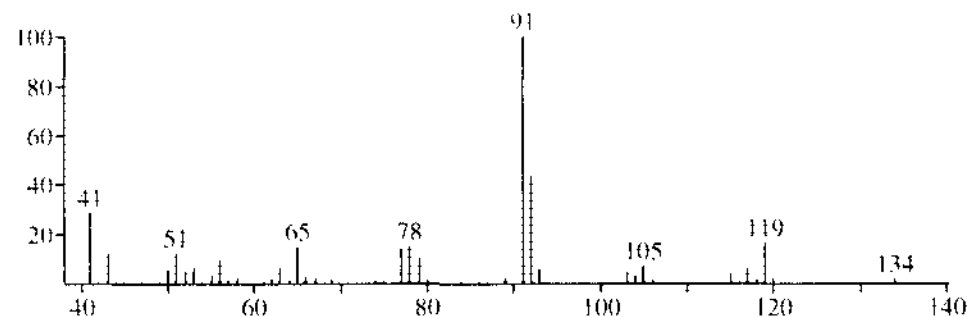
RT: 6.38 AI: 951 KI: 958 **Thiazole <2-ethoxy->**
 CAS#: 15679-19-3 MF: C₅H₇NO₂S FW: 129 MSD LIB#: 55
 CN: thiazole, 2-ethoxy-
 Synonyms: none
 Source: Aldrich Chem.



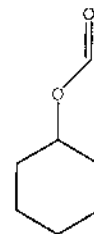
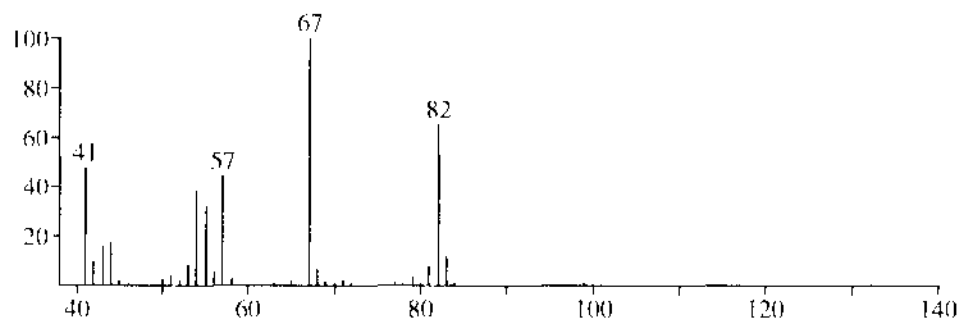
RT: 6.43 AI: 952 KI: 960 **Benzaldehyde**
 CAS#: 100-52-7 MF: C₇H₆O FW: 106 MSD LIB#: 310
 CN: benzaldehyde
 Synonyms: artificial blackberry; artificial almond
 Source: artificial blackberry flavor, Lorann Inc.: 95.00% *Prunus dulcis*, p. 61.
 in: Die natuerlichen und kuenstlichen Aromen. Dr. Alfred Verlag Publ., Heidelberg(1982);
 95.00% *Prunus armeniaca* (kernel); 10.07% *Dendrobium chrysatoxum* (flower)



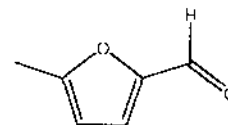
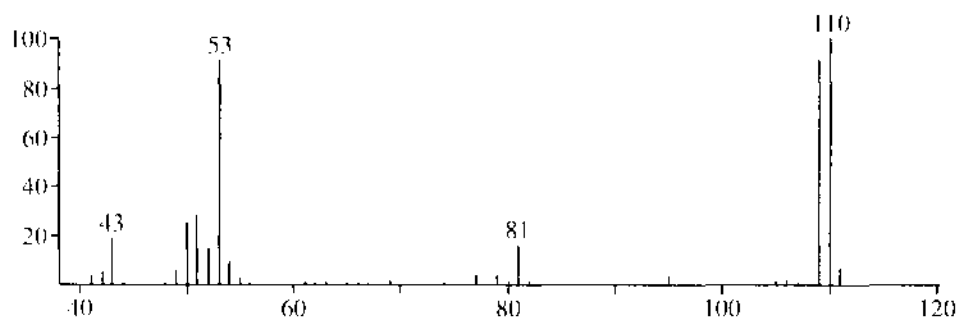
RT: 6.44 AI: 953 KI: 960 **Thuja-2,4(10)-diene**
 CAS#: 36262-09-6 MF: C₁₀H₁₆ FW: 134 MSD LIB#: 361
 CN: bicyclo[3.1.0]hex-2-ene, 4-methylene-1-(1-methylethyl)-
 Synonyms: none
 Source: carrot seed oil ex Nestle ex A Chaintean; 0.40% *Pinus sibirica*.
 JEOR 8:549(1996); 0.30% *Juniperus rigida* (Korea); 0.05% *Juniperus rigida* (Japan)



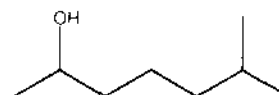
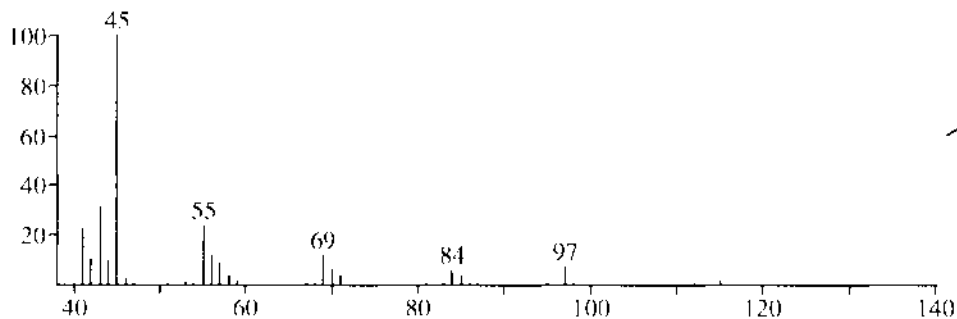
RT: 6.49 AI: 954 KI: 962 **Cyclohexyl formate**
 CAS#: 4351-54-6 MF: C₇H₁₂O₂ FW: 128 MSD LIB#: 533
 CN: formic acid, cyclohexyl ester
 Synonyms: cyclohexanol formate
 Source: Bedoukian Res. ex Art Tucker



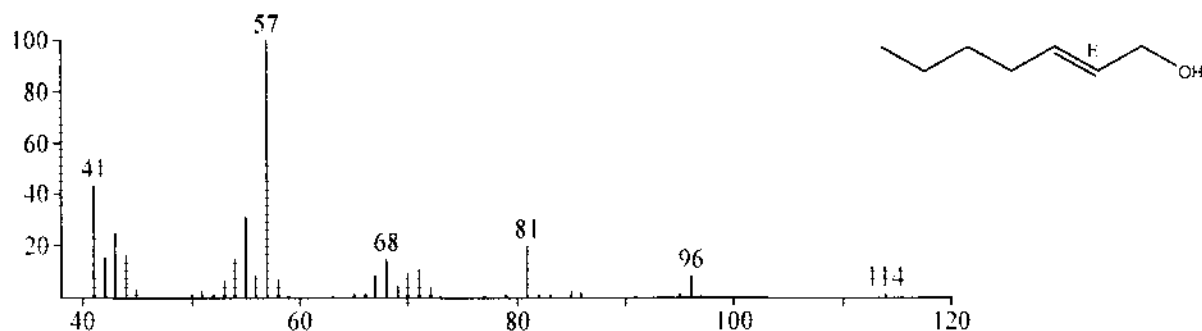
RT: 6.56 AI: 957 KI: 964 **Furfural <5-methyl->**
 CAS#: 620-02-0 MF: C₆H₆O₂ FW: 110 MSD LIB#: 1460
 CN: 2-furancarboxaldehyde, 5-methyl-
 Synonyms: 5-methyl-2-furfuraldehyde
 Source: distilled comm. tamarind (Laxmi Brand, India) RP Adams #6440



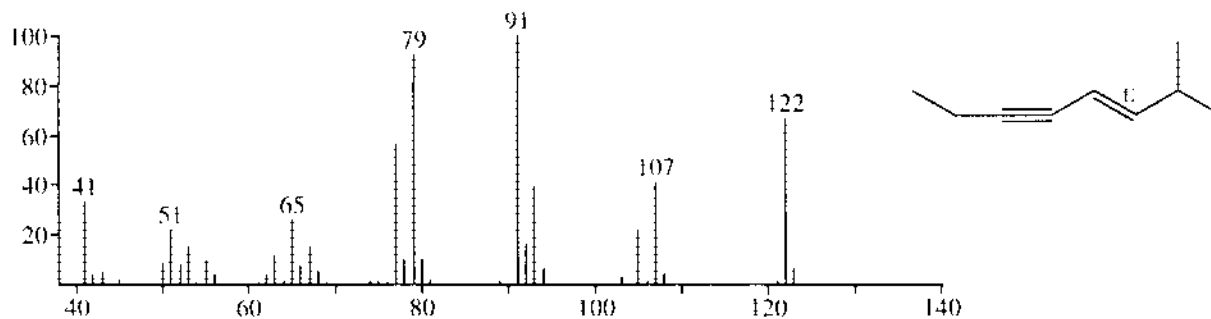
RT: 6.58 AI: 958 KI: 965 **Heptan-2-ol <6-methyl->**
 CAS#: 4730-22-7 MF: C₈H₁₈O FW: 130 MSD LIB#: 778
 CN: 2-heptanol, 6-methyl-
 Synonyms: none
 Source: ref. cpd. ex P. Weyerstahl



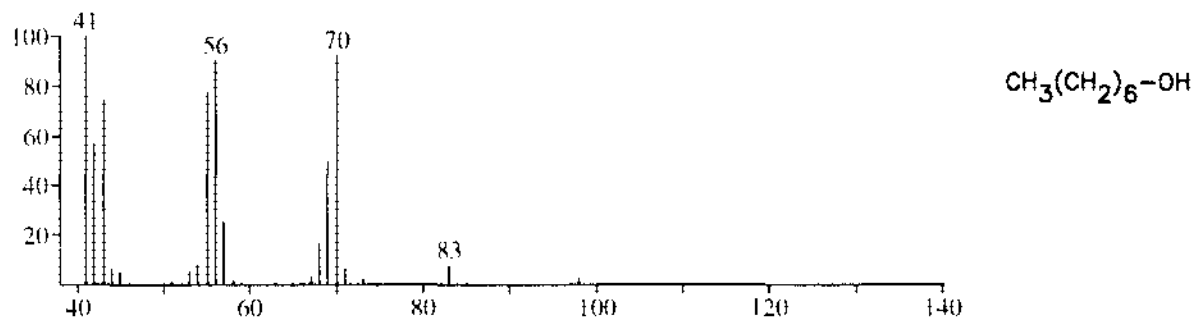
RT: 6.58 AI: 958 KI: 965 **Hepten-1-ol <(2E)->**
 CAS#: 33467-76-4 MF: C₇ H₁₄ O FW: 114 MSD LIB#: 1935
 CN: 2-hepten-1-ol, (E)-
 Synonyms: none
 Source: Bedoukian Chem. ex JJ Brophy



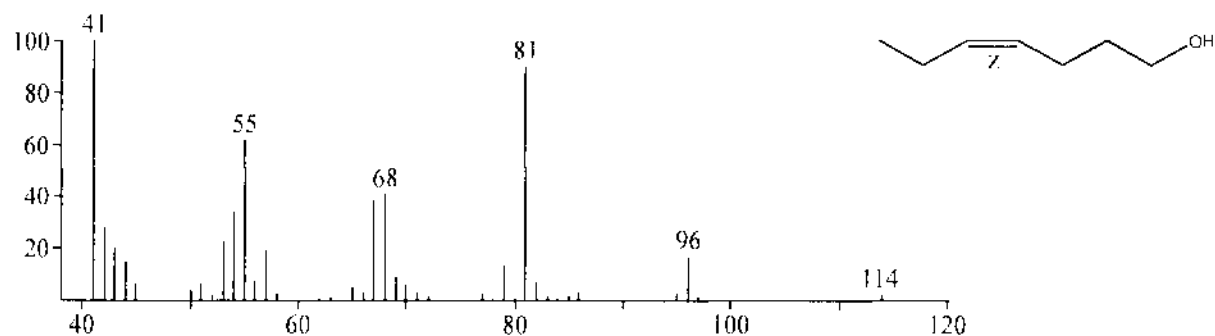
RT: 6.59 AI: 958 KI: 965 **Octen-5-yne <(2-methyl-(3E)->**
 CAS#: 850309-57-8 MF: C₉ H₁₄ FW: 122 MSD LIB#: 1909
 CN: 3-octen-5-yne, 2-methyl-, (3E)-
 Synonyms: none
 Source: *Lomatium dissectum* root oil ex Vasu Dev



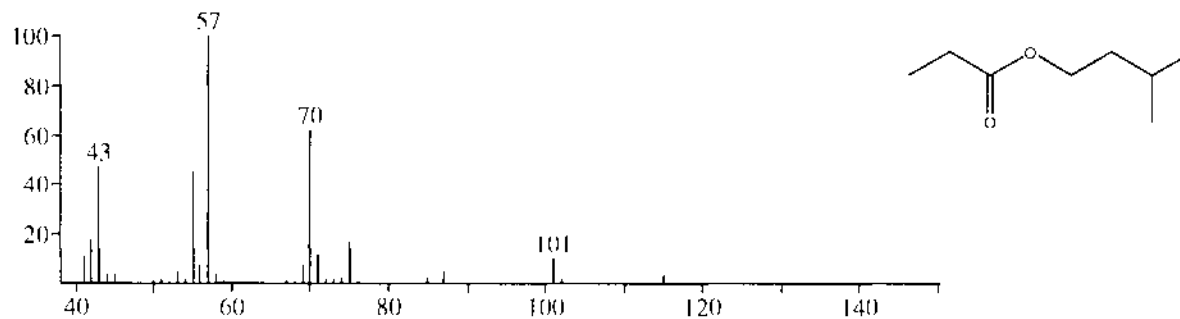
RT: 6.63 AI: 959 KI: 966 **Heptanol <n->**
 CAS#: 111-70-6 MF: C₇ H₁₆ O FW: 116 MSD LIB#: 33
 CN: 1-heptanol
 Synonyms: gentanol, enanthic alcohol
 Source: alcohols mix ex E. von Rudloff



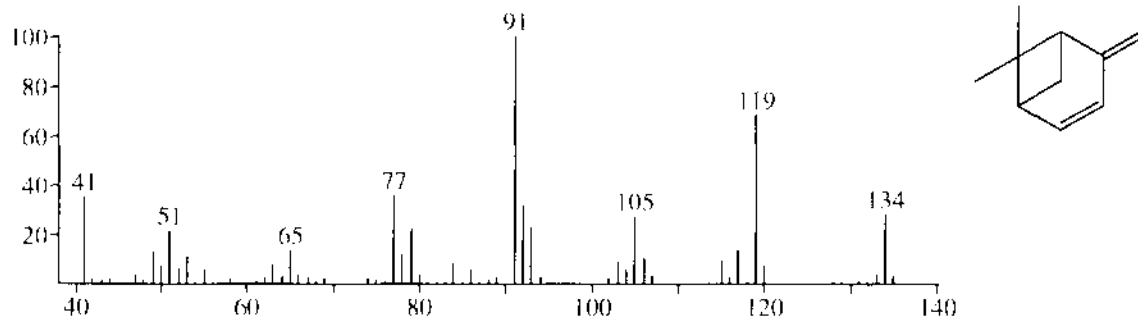
RT: 6.63 AI: 959 KI: 966 **Hepten-1-ol <(4Z)->**
 CAS#: 6191-71-5 MF: C₇H₁₄O FW: 114 MSD LIB#: 787
 CN: 4-hepten-1-ol, (Z)-
 Synonyms: cis-hept-4-enol
 Source: Bedoukian Res. ex Art Tucker



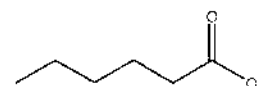
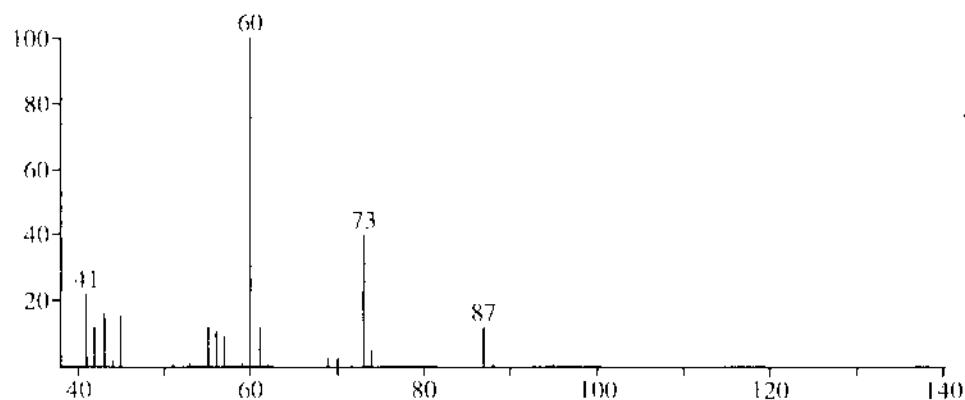
RT: 6.64 AI: 960 KI: 966 **Isoamyl propionate**
 CAS#: 105-68-0 MF: C₈H₁₆O₂ FW: 144 MSD LIB#: 1606
 CN: propionic acid, isopentyl ester
 Synonyms: isoamyl propionate, isopentyl propanoate
 Source: Aldrich Chem.



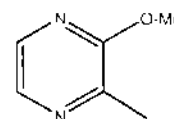
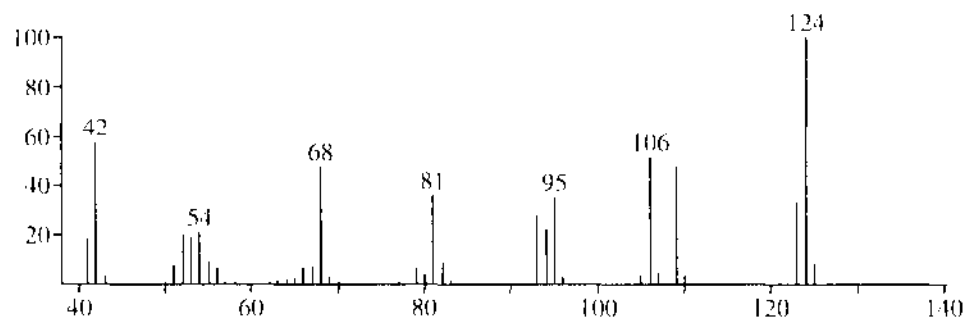
RT: 6.67 AI: 961 KI: 967 **Verbenene**
 CAS#: 4080-46-0 MF: C₁₀H₁₄ FW: 134 MSD LIB#: 906
 CN: bicyclo(3.1.1)hept-2-ene, 6,6-dimethyl-4-methylene-
 Synonyms: 2(10),3-pinadiene
 Source: *Juniperus flaccida* var. *martinezii* leaf oil, RP Adams #5974.
 Identified by R. Larent, Robertet, France



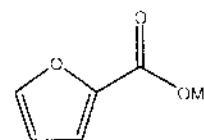
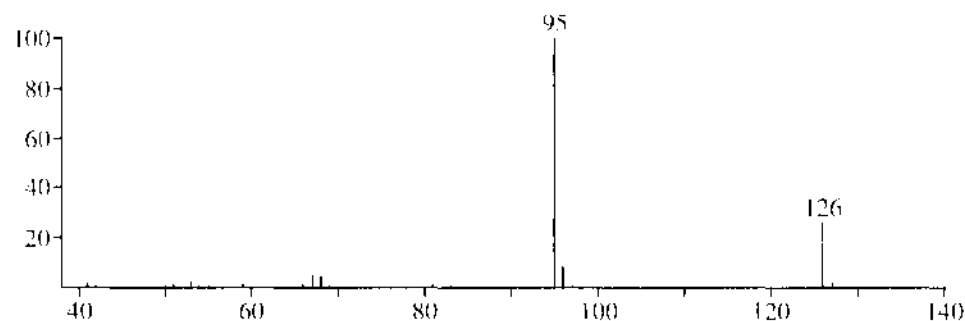
RT: 6.84 AI: 967 KI: 973 **Hexanoic acid**
 CAS#: 142-62-1 MF: C₆H₁₂O₂ FW: 116 MSD LIB#: 2067
 CN: hexanoic acid
 Synonyms: caproic acid
 Source: Bedoukian Res.: 6.17% *Zizyphus jujuba* fruit, JEOR 8:323(1996);
 3.35% *Passiflora edulis* fruit; 2.70% *Psidium guajava* fruit



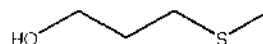
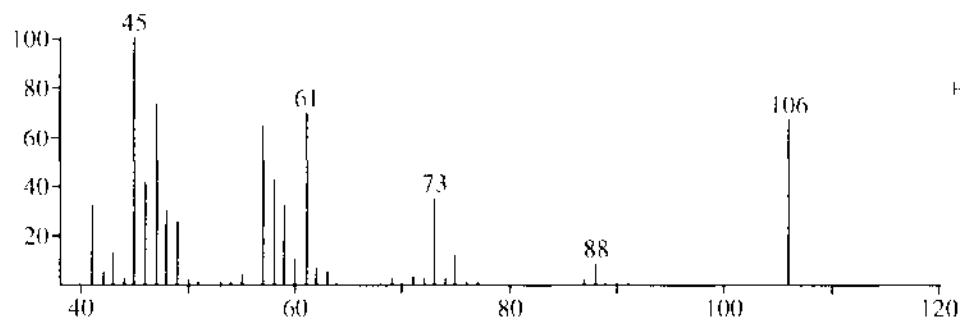
RT: 6.85 AI: 967 KI: 973 **Pyrazine <2-methoxy-3-methyl->**
 CAS#: 2847-30-5 MF: C₆H₈N₂O FW: 124 MSD LIB#: 66
 CN: pyrazine, 2-methoxy-3-methyl-
 Synonyms: none
 Source: Aldrich Chem.



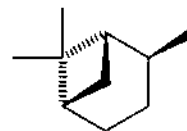
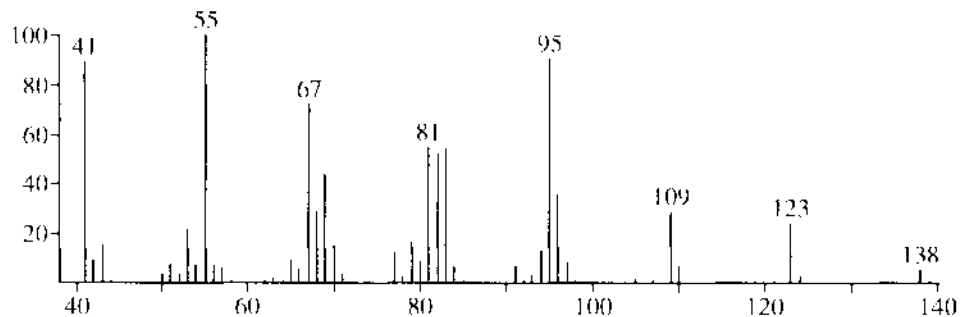
RT: 6.90 AI: 969 KI: 975 **Methyl 2-furoate**
 CAS#: 611-13-2 MF: C₆H₆O₃ FW: 126 MSD LIB#: 2066
 CN: 2-furancarboxylic acid, methyl ester
 Synonyms: pyromucic acid methyl ester; furoic acid, 2-
 Source: Bedoukian Res.



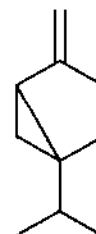
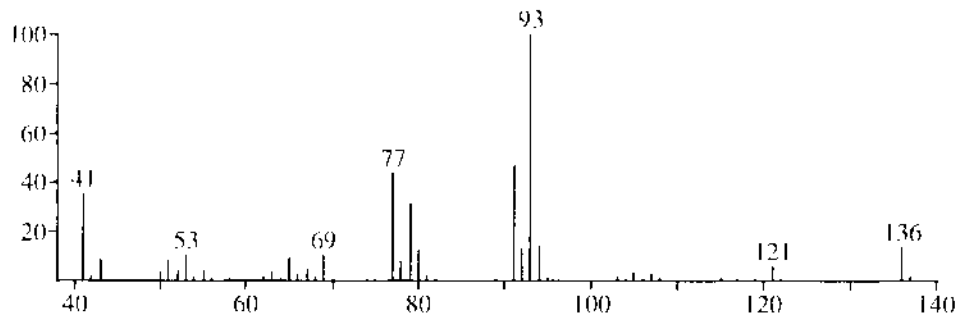
RT: 6.90 AI: 969 KI: 975 **Propanol <3-methylthio->**
 CAS#: 505-10-2 MF: C₄H₁₀OS FW: 106 MSD LIB#: 1708
 CN: 1-propanol, 3-(methylthio)-
 Synonyms: methionol
 Source: Aldrich Chem.



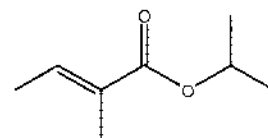
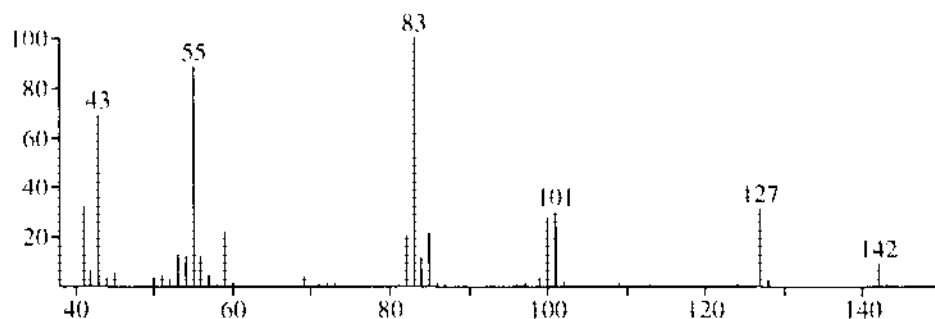
RT: 6.91 AI: 969 KI: 975 **Pinane <trans->**
 CAS#: 33626-25-4 MF: C₁₀H₁₈ FW: 138 MSD LIB#: 1296
 CN: bicyclo(3.1.1)heptane, 2,6,6-trimethyl-, (1 α ,2 α ,5 α)-
 Synonyms: none
 Source: SCM Chemis. ex H. Hills



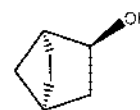
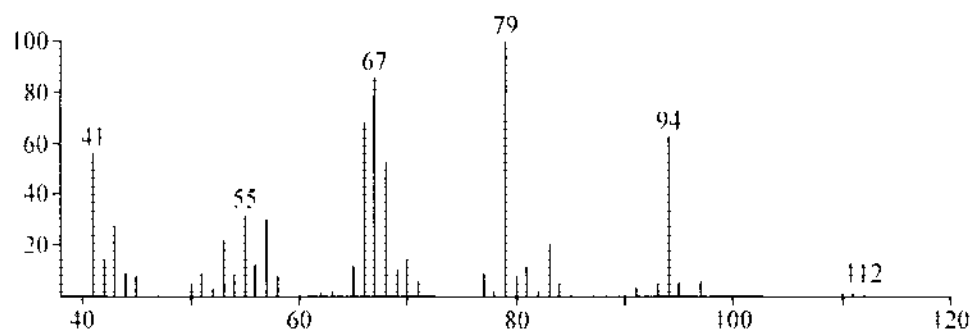
RT: 6.91 AI: 969 KI: 975 **Sabinene**
 CAS#: 3387-41-5 MF: C₁₀H₁₆ FW: 136 MSD LIB#: 304
 CN: bicyclo(3.1.0)hexane, 4-methylene-1-(1-methylethyl)-
 Synonyms: 4(10)-thujene
 Source: distillation of black pepper, RP Adams #5448; 82.90% *Juniperus sabina*,
 J. Chromatog. 396:416(1987); 62.36% *Litsea cubeba* (flower); 61.91% *Citrus paradisi*



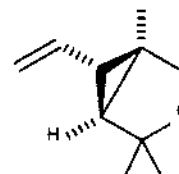
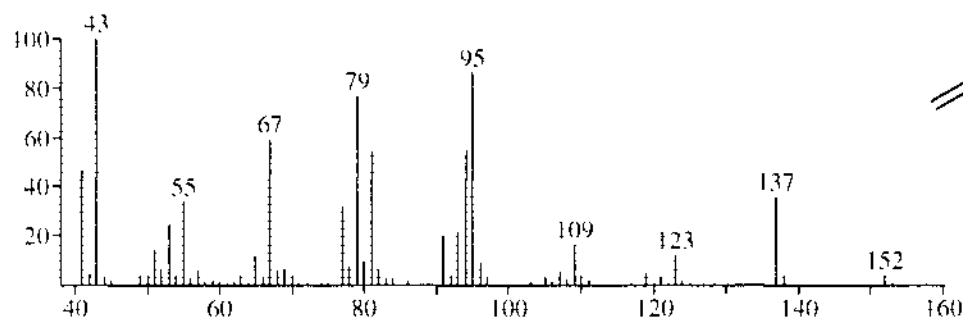
RT: 6.93 AI: 970 KI: 976 **Isopropyl tiglate**
 CAS#: 1733-25-1 MF: C₈H₁₄O₂ FW: 142 MSD LIB#: 42
 CN: 2-butenoic acid, 2-methyl-, 1-methylethyl ester (E)-
 Synonyms: tiglic acid isopropyl ester
 Source: Aldrich Chem.



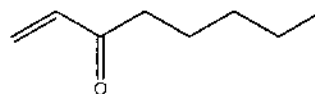
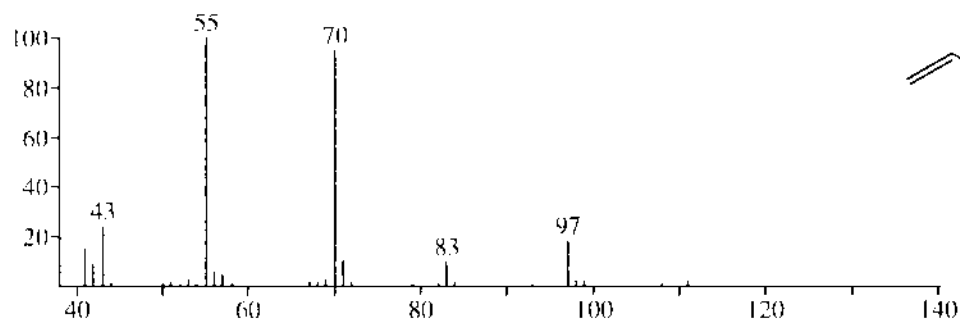
RT: 6.93 AI: 970 KI: 976 **Norborneol <exo-2->**
 CAS#: 497-37-0 MF: C₇H₁₂O FW: 112 MSD LIB#: 1187
 CN: bicyclo(2.2.1)heptan-2-ol, exo-
 Synonyms: none
 Source: ref. epdl. ex E. von Rudloff



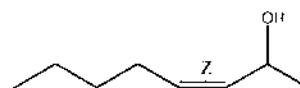
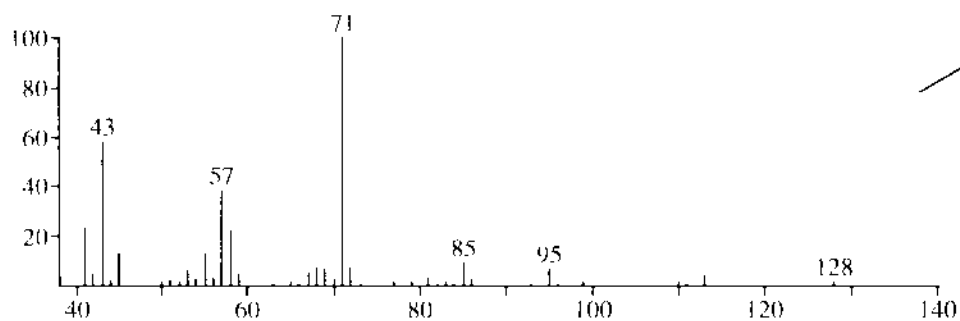
RT: 6.96 AI: 971 KI: 976 **Artemiseole**
 CAS#: 60485-46-3 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 222
 CN: 3-oxabicyclo(3.1.0)hexane, 6-ethenyl-1,4,4-trimethyl-, (1R-(1α,5α,6α))-
 Synonyms: arthole
 Source: *Artemisia tridentata*, SLC, UT ex RP Adams #5577



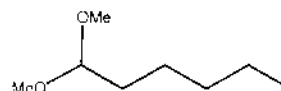
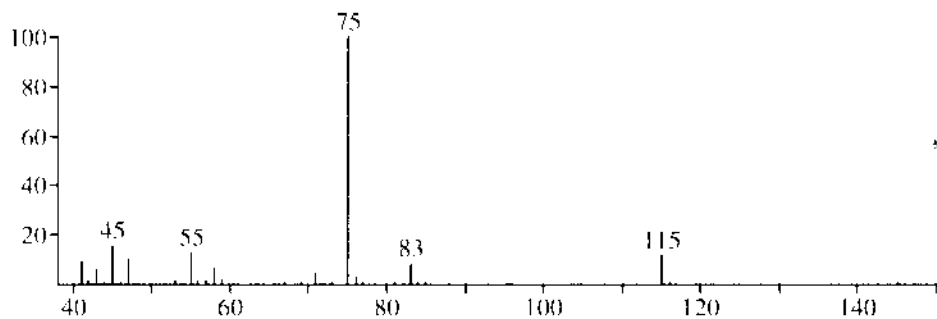
RT: 6.98 AI: 972 KI: 977 **Octen-3-one <1->**
 CAS#: 4312-99-6 MF: C₈H₁₄O FW: 126 MSD LIB#: 2058
 CN: 1-octen-3-one
 Synonyms: amyl vinyl ketone; pentyl vinyl ketone
 Source: Bedoukian Res.



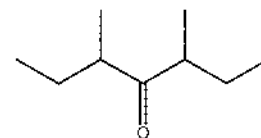
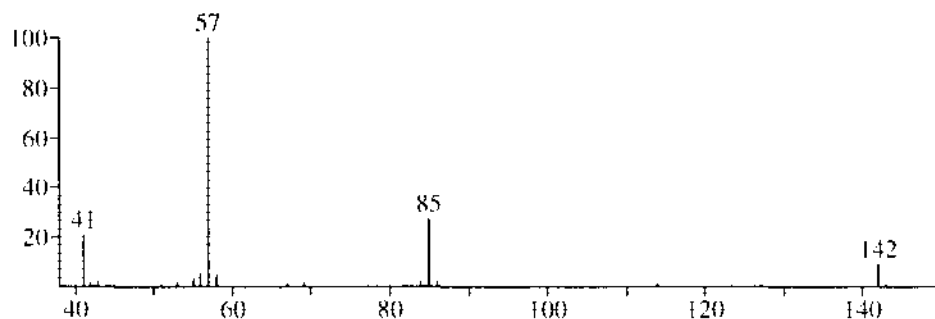
RT: 7.00 AI: 972 KI: 978 **Octen-2-ol <(3Z)->**
 CAS#: 69668-89-9 MF: C₈H₁₆O FW: 128 MSD LIB#: 2021
 CN: 3-octen-2-ol, (3Z)-
 Synonyms: trans-3-octen-2-ol
 Source: Bedoukian Res. ex JJ Brophy



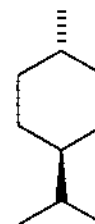
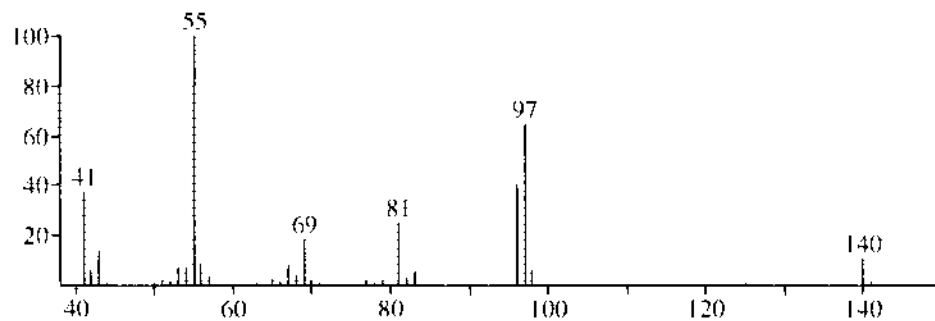
RT: 7.01 AI: 973 KI: 978 **Hexanal, dimethyl acetal**
 CAS#: 1599-47-9 MF: C₈H₁₈O₂ FW: 146 MSD LIB#: 2112
 CN: hexane, 1,1-dimethoxy-
 Synonyms: caproaldehyde dimethyl acetal
 Source: Bedoukian Res.



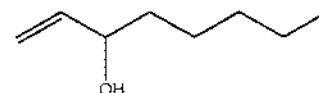
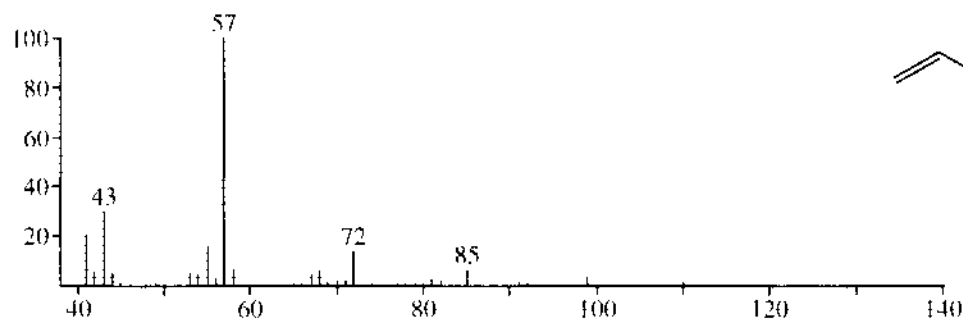
RT: 7.02 AI: 973 KI: 978 **Dimethyl-4-heptanone <3,5->**
CAS#: 19549-84-9 MF: C₉H₁₈O FW: 142 MSD LIB#: 1997
CN: 4-heptanone, 3,5-dimethyl-
Synonyms: di-sec-butyl ketone
Source: Aldrich Chem. ex J.J. Brophy



RT: 7.03 AI: 973 KI: 979 **Menthane <trans-p->**
CAS#: 1678-82-6 MF: C₁₀H₂₀ FW: 140 MSD LIB#: 1075
CN: cyclohexane, 1-methyl-4-(1-methylethyl)-,trans-
Synonyms: none
Source: ref. cpd. ex E. von Rudloff



RT: 7.04 AI: 974 KI: 979 **Octen-3-ol <1->**
CAS#: 3391-86-4 MF: C₈H₁₆O FW: 128 MSD LIB#: 897
CN: octen-3-ol<1->
Synonyms: none
Source: *Juniperus bermudiana* leaf oil, RP Adams #2554



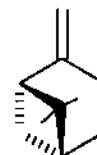
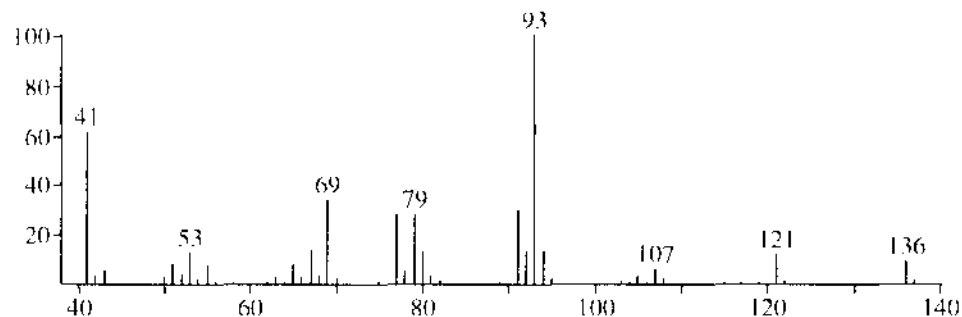
RT: 7.04 AI: 974 KI: 979 **Pinene < β ->**

CAS#: 127-91-3 MF: C₁₀H₁₆ FW: 136 MSD LIB#: 305

CN: bicyclo(3.1.1)heptane, 6,6-dimethyl-2-methylene-

Synonyms: nopinene; terebenthene; pseudopinene

Source: distillation of black pepper, RP Adams #5448; 59.90% *Ferula galbaniflua*,
J. Food Sci. 27:455(1962); 58.52% *Anonum villosum*; 55.10% *Myristica fragrans*



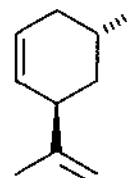
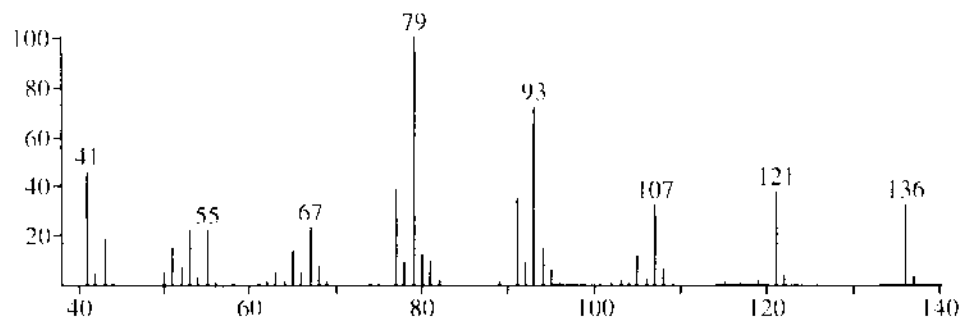
RT: 7.18 AI: 979 KI: 983 **Mentha-2,8-diene <trans-meta->**

CAS#: 5208-52-6 MF: C₁₀H₁₆ FW: 136 MSD LIB#: 1067

CN: m-mentha-4,8-dien, (1R,3S)-

Synonyms: none

Source: ref. epd. ex K. Gollnick



RT: 7.19 AI: 979 KI: 983 **Octanone <3->**

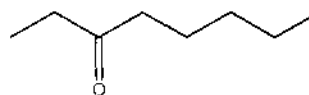
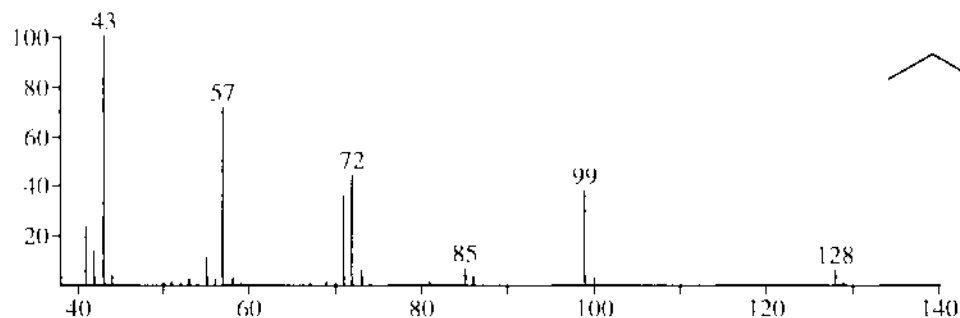
CAS#: 106-68-3 MF: C₈H₁₆O FW: 128 MSD LIB#: 987

CN: 3-octanone

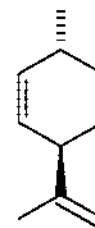
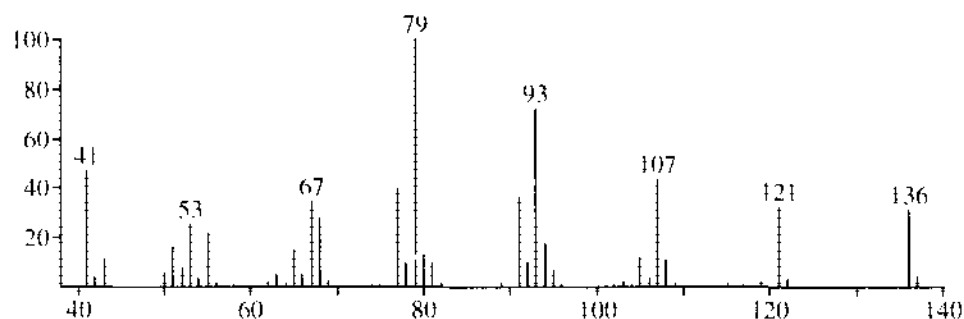
Synonyms: ethyl pentyl ketone; amyl ethyl ketone

Source: Lavender oil ex Firmenich ex AF Thomas; 6.15% *Rosmarinus officinalis*.

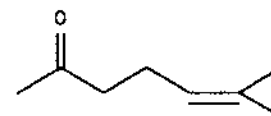
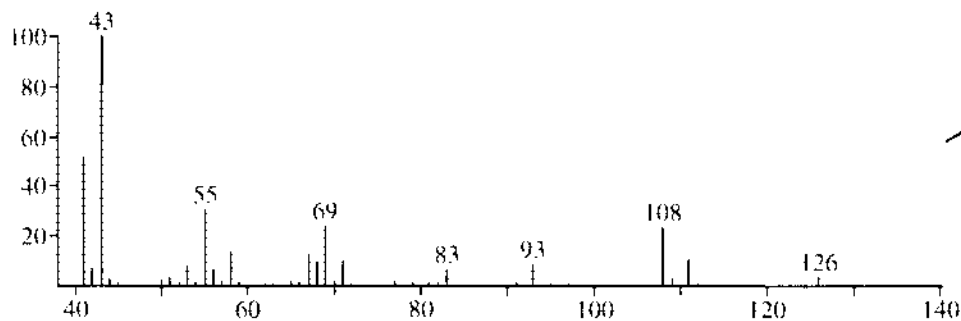
JEOR 7:279(1995); 2.40% *Elsholtzia ciliata*; 2.27% *Lavendula angustifolia*



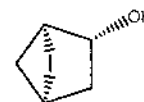
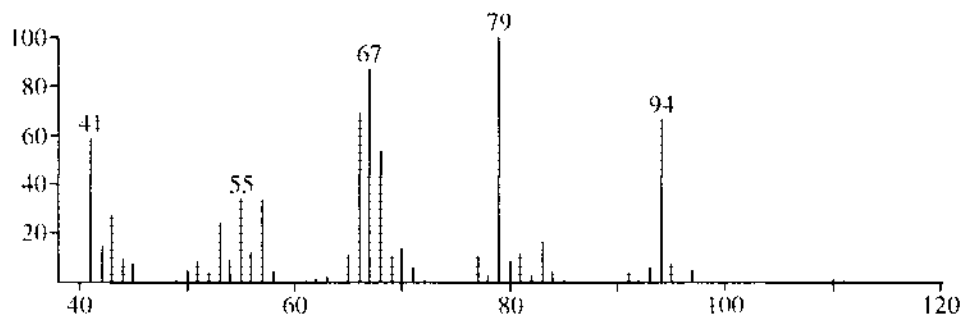
RT: 7.22 AI: 980 KI: 984 **Isolimonene <trans->**
 CAS#: 5113-87-1 MF: C₁₀H₁₆ FW: 136 MSD LIB#: 867
 CN: cyclohexene, 3-methyl-6-(1-methylethenyl)-, (3R-trans)-
 Synonyms: none
 Source: Fluka Chem.



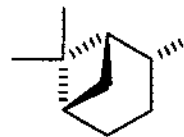
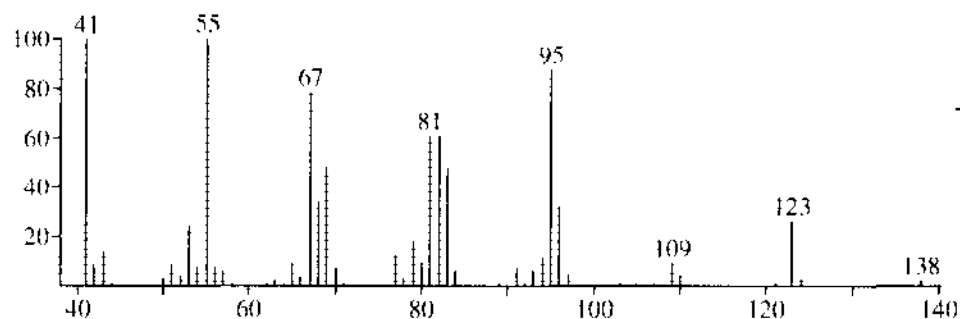
RT: 7.25 AI: 981 KI: 985 **Hepten-2-one <6-methyl-5->**
 CAS#: 110-93-0 MF: C₈H₁₄O FW: 126 MSD LIB#: 789
 CN: methyl-5-hepten-2-one (6-)
 Synonyms: 2-methyl-6-oxo-2-heptene
 Source: ref. cpd. ex Theresa Chamblee, Coca Cola Co.



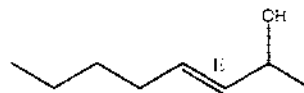
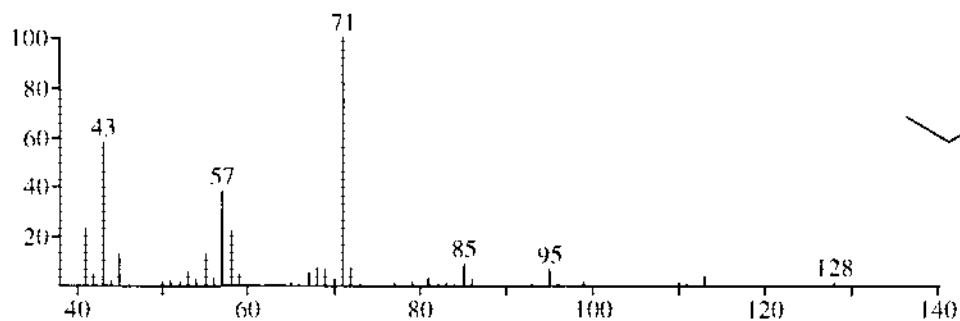
RT: 7.26 AI: 982 KI: 985 **Norborneol <endo-2->**
 CAS#: 497-36-9 MF: C₇H₁₂O FW: 112 MSD LIB#: 1188
 CN: bicyclo[2.2.1]heptan-2-ol, endo-
 Synonyms: none
 Source: ref. cpd. ex E. von Rudloff



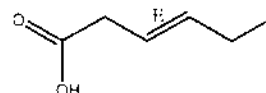
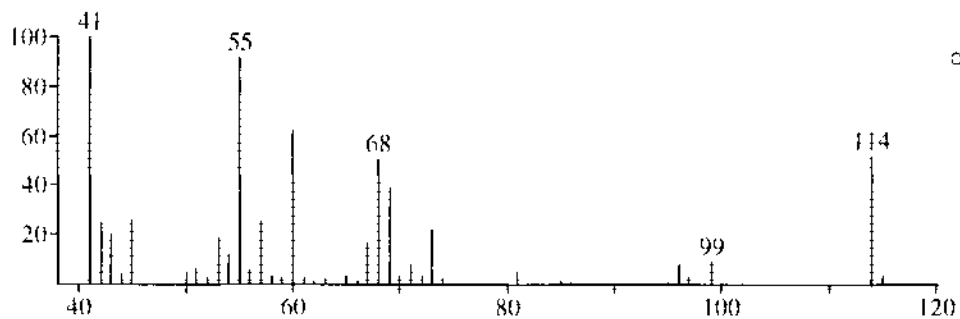
RT: 7.27 AI: 982 K1: 986 **Pinane <cis->**
 CAS#: 6876-13-7 MF: C₁₀H₁₈ FW: 138 MSD LIB#: 1297
 CN: bicyclo[3.1.1]heptane, 2,6,6-trimethyl-, (1 α ,2 β ,5 α)-
 Synonyms: none
 Source: SCM Chems. ex H. Hills



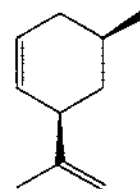
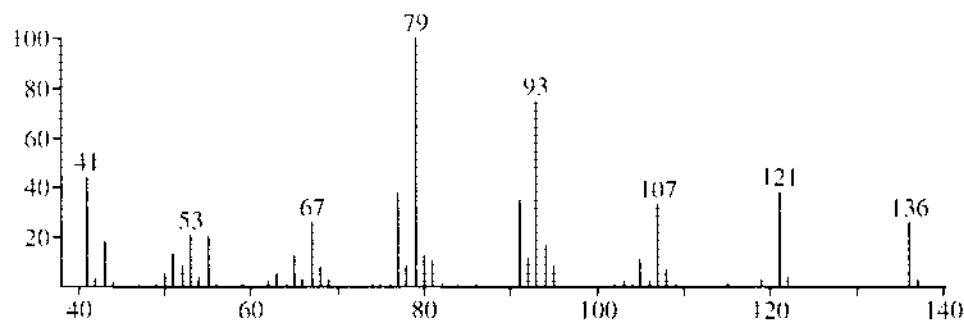
RT: 7.28 AI: 982 K1: 986 **Octen-2-ol <(3E)->**
 CAS#: 57648-55-2 MF: C₈H₁₆O FW: 128 MSD LIB#: 2020
 CN: 3-octen-2-ol, (3E)-
 Synonyms: trans-3-octen-2-ol
 Source: Bedoukian Res. ex JJ Brophy



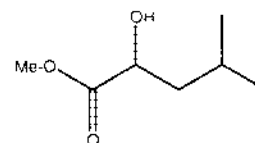
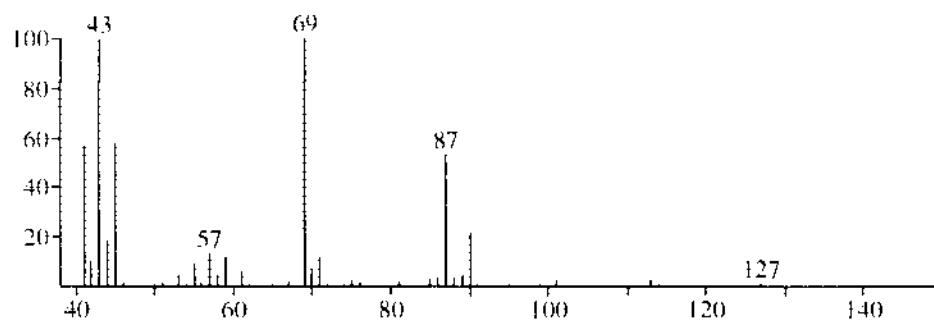
RT: 7.30 AI: 983 K1: 987 **Hexenoic acid <(3E)->**
 CAS#: 1577-18-0 MF: C₆H₁₀O₂ FW: 114 MSD LIB#: 1976
 CN: 3-hexenoic acid, (E)-
 Synonyms: trans-3-hexenoic acid
 Source: Bedoukian Res. ex JJ Brophy



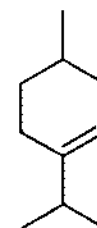
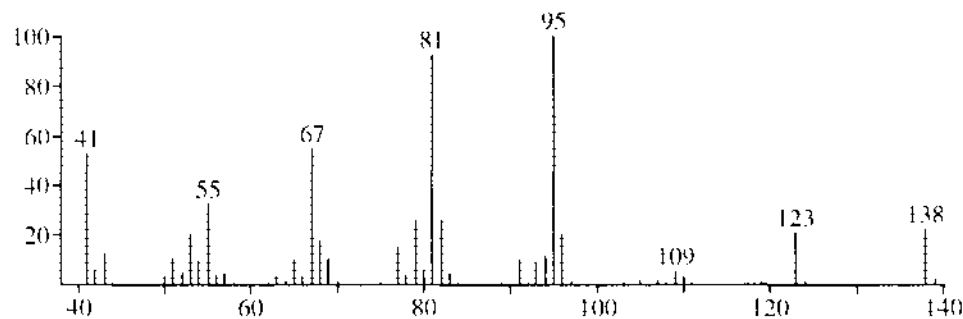
RT: 7.31 AI: 983 KI: 987 **Mentha-2,8-diene <cis-meta->**
 CAS#: 5208-51-5 MF: C₁₀H₁₆ FW: 136 MSD LIB#: 1068
 CN: m-mentha-4,8-diene, (1S,3S)-
 Synonyms: none
 Source: ref. cpd. ex K. Gollnick



RT: 7.31 AI: 983 KI: 987 **Methyl pentanoate <2-hydroxy-4-methyl->**
 CAS#: 40348-72-9 MF: C₇H₁₄O₃ FW: 146 MSD LIB#: 1107
 CN: pentanoic acid, 2-hydroxy-4-methyl, methyl ester
 Synonyms: none
 Source: ref. cpd. ex KC Wong, Malaysia



RT: 7.32 AI: 984 KI: 987 **Menthene <3-p->**
 CAS#: 500-00-5 MF: C₁₀H₁₈ FW: 138 MSD LIB#: 1077
 CN: cyclohexene, 4-methyl-1-(1-methylethyl)-
 Synonyms: menthomenthene; isopropyl-4-methylcyclohexene
 Source: ref. cpd. ex E. von Rudloff



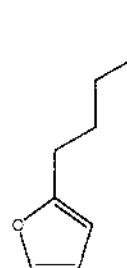
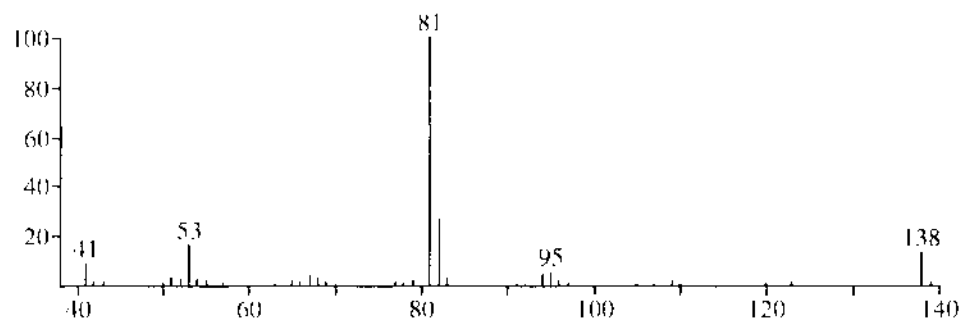
RT: 7.34 AI: 984 KE: 988 **Pentyl furan <2->**

CAS#: 3777-69-3 MF: C₉H₁₄O FW: 138 MSD LIB#: 1961

CN: furan, 2-pentyl-

Synonyms: 2-amylfuran

Source: Bedoukian Res. ex JJ Brophy: 1.00% *Spartium junceum*, Rivista Ital. EPPOS 325(1992); 0.60% *Apium graveolens*; 0.25% *Rhus coriaria*



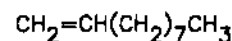
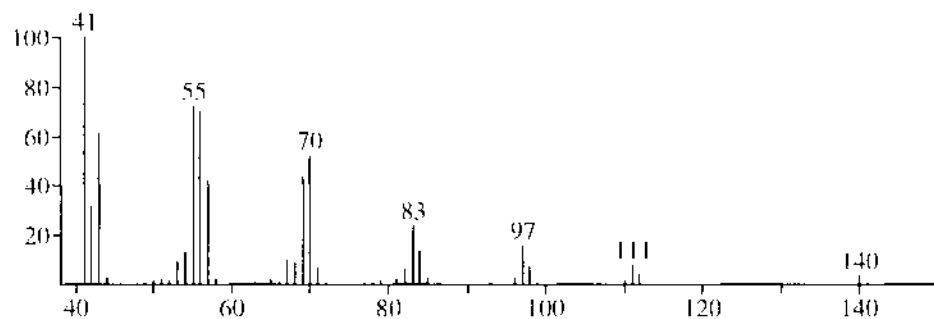
RT: 7.39 AI: 986 KE: 989 **Decene <1->**

CAS#: 872-05-9 MF: C₁₀H₂₀ FW: 140 MSD LIB#: 1219

CN: decene (1-)

Synonyms: none

Source: Olefins stock mix, Aldrich and Sigma Chem.: 6.20% *Nicotiana rustica*, JEOR 7:265(1995); 0.30% *Machilus bombycina*; 0.20% *Minthostachys spicata*



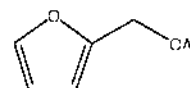
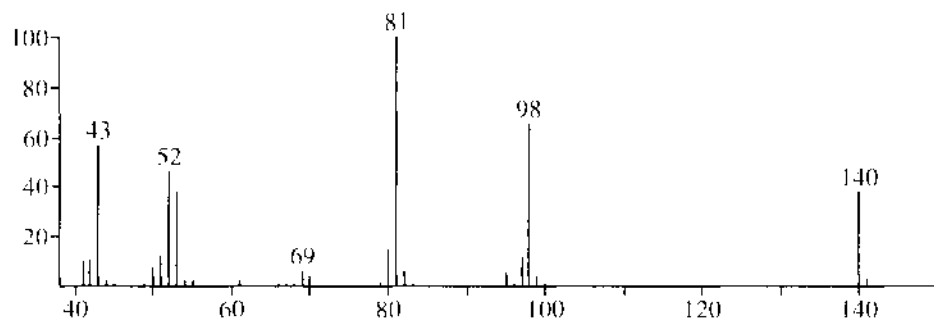
RT: 7.42 AI: 987 KE: 990 **Furfuryl acetate**

CAS#: 623-17-6 MF: C₇H₈O₃ FW: 140 MSD LIB#: 2039

CN: 2-furanmethanol, acetate

Synonyms: acetic acid furfuryl ester; NSC 5585

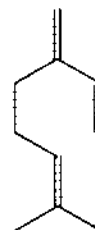
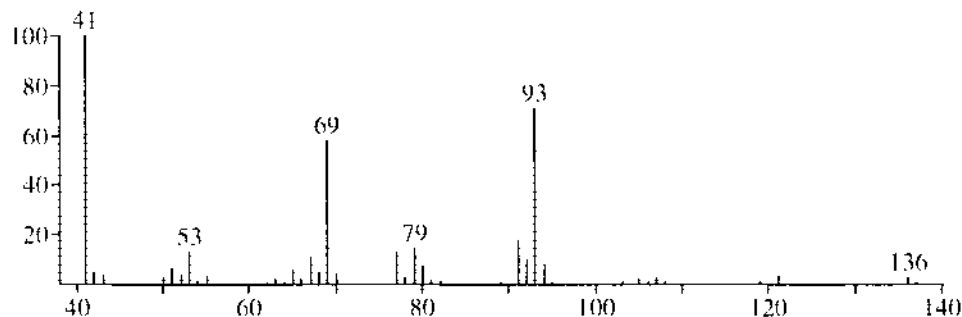
Source: Bedoukian Res.



RT: 7.43 AI: 988 KI: 990 **Myrcene**CAS#: 123-35-3 MF: C₁₀H₁₆ FW: 136 MSD LIB#: 915

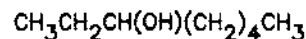
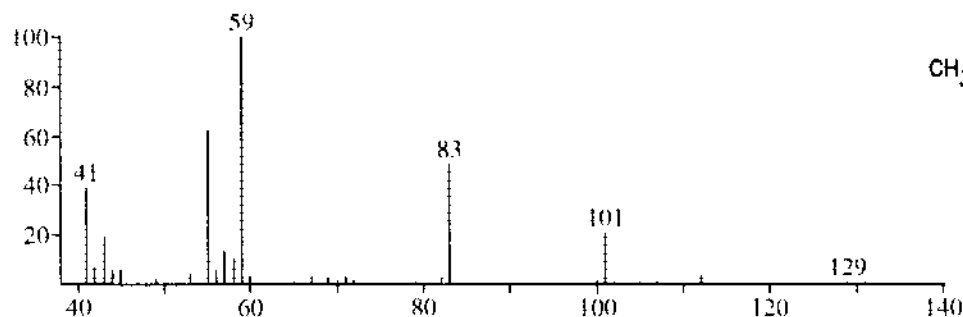
CN: 1,6-octadiene, 7-methyl-3-methylene-

Synonyms: none

Source: *Juniperus lucayana* leaf oil, RP Adams #2863; 94.51% *Alpinia galanga* (root),JEOR 4.81(1992); 72.25% *Pistacia lentiscus* (ripe fruit); 68.00% *Canella winterana* (leaf)RT: 7.44 AI: 988 KI: 991 **Octanol <3->**CAS#: 589-98-0 MF: C₈H₁₈O FW: 130 MSD LIB#: 1257

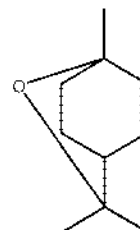
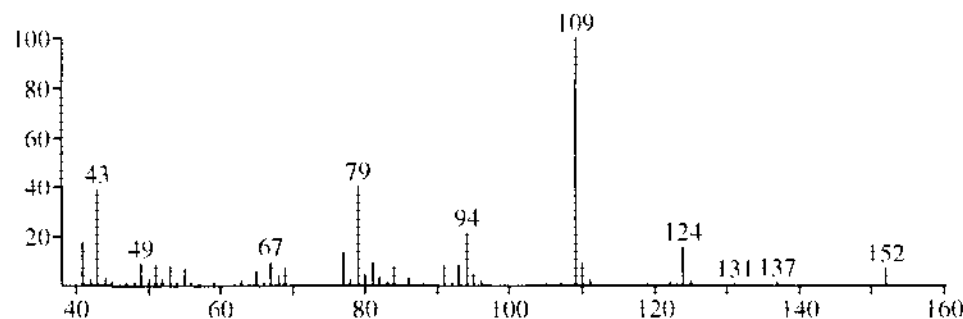
CN: octan-3-ol

Synonyms: none

Source: Peppermint oil, McCormick Co.; 10.30% *Mentha x gentilis*,Phytochem. 11:2639(1972); 3.95% *Perilla frutescens*; 3.60% *Teucrium heterophyllum*RT: 7.45 AI: 988 KI: 991 **Cineole <dehydro-1,8->**CAS#: 66113-06-2 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 227

CN: 2-oxabicyclo[2.2.2]oct-5-ene, 1,3,3-trimethyl-

Synonyms: none

Source: *Artemisia tridentata*, RP Adams #5577, SLC, Utah; 5.20% *Artemisia campestris*,FJ 10:25(1995); 1.10% *Artemisia velutiorum*; 0.70% *Artemisia persica*

RT: 7.45 AI: 988 KI: 991 **Octanone <2->**

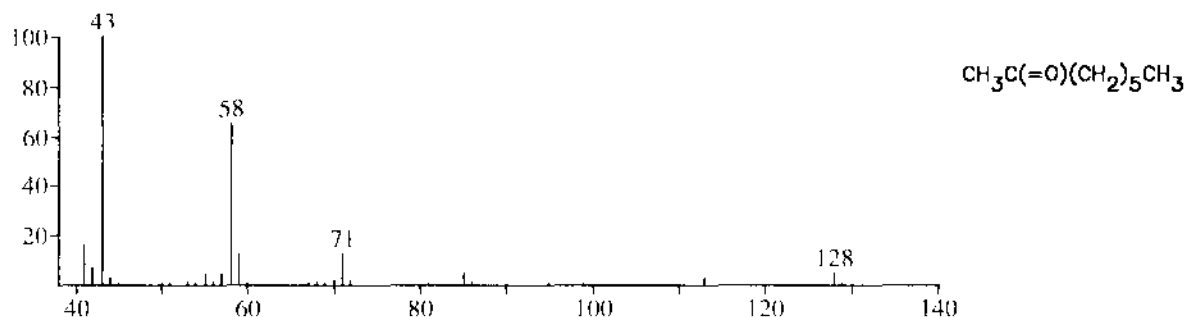
CAS#: 111-13-7 MF: C₈H₁₆O FW: 128 MSD LIB#: 1205

CN: 2-octanone

Synonyms: methyl hexyl ketone

Source: Chemical Services inc. ex H. Hills; 0.40% *Ruta graveolens*, Sci. Pharm 56:121(1988);

0.17% *Zizyphus jujuba*; 0.10% *Dracocephalum kotschy*



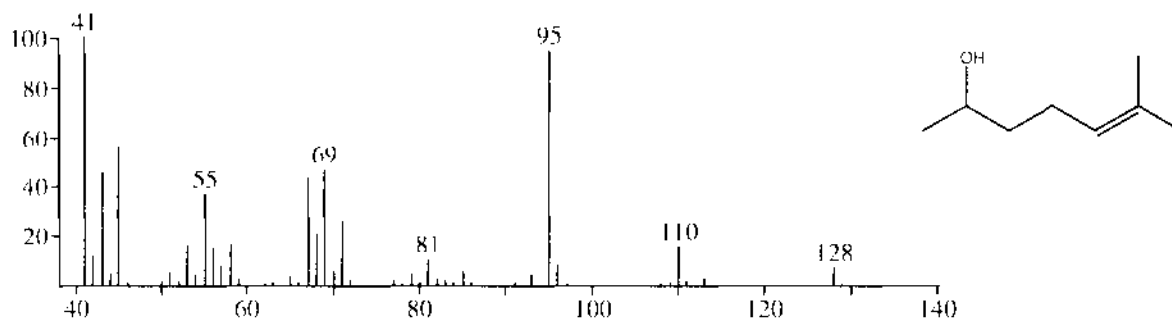
RT: 7.47 AI: 989 KI: 991 **Hepten-2-ol <6-methyl-5->**

CAS#: 1569-60-4 MF: C₈H₁₆O FW: 128 MSD LIB#: 788

CN: 5-hepten-2-ol, 6-methyl-

Synonyms: none

Source: ref. cpd. ex E. von Rudloff



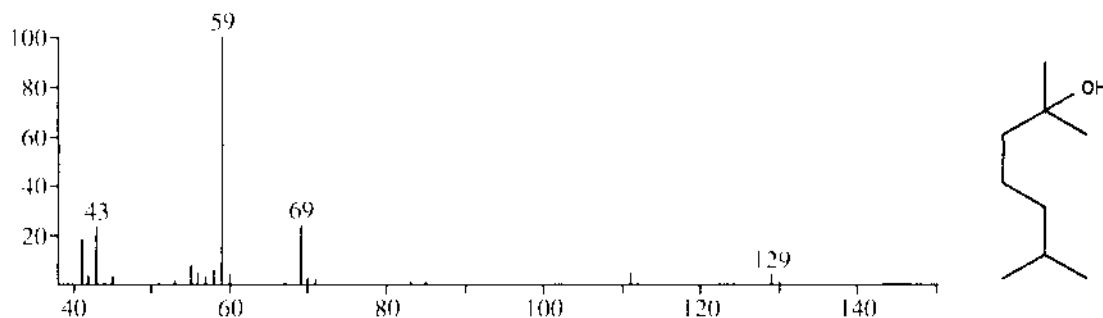
RT: 7.48 AI: 989 KI: 992 **Heptanol <2,6-dimethyl-2->**

CAS#: 13254-34-7 MF: C₉H₂₀O FW: 144 MSD LIB#: 781

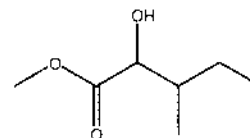
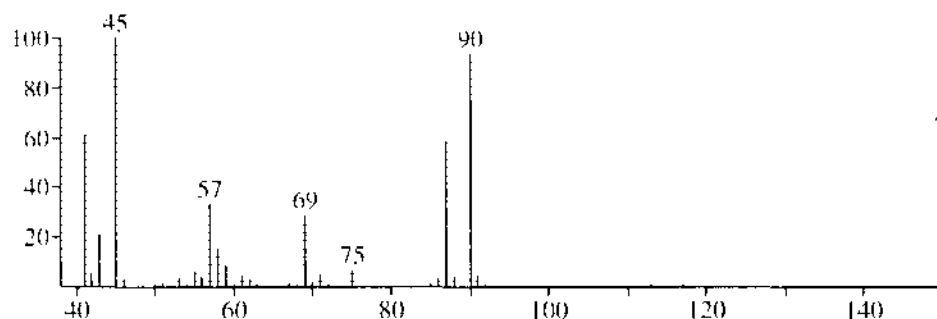
CN: 2-heptanol, 2,6-dimethyl-

Synonyms: freesiol

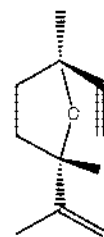
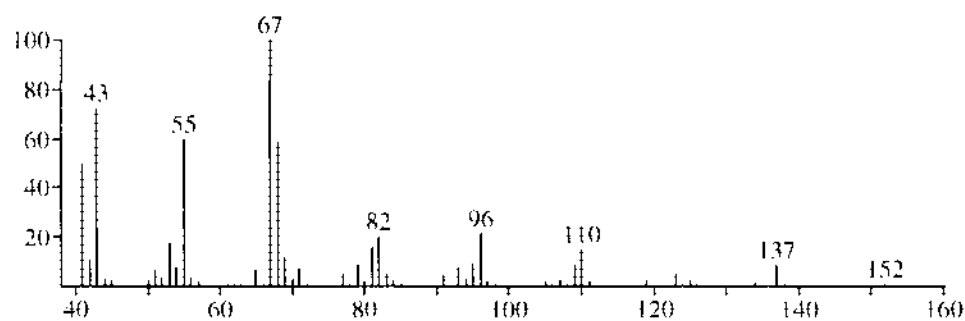
Source: H & R Chem. ex Art Tucker



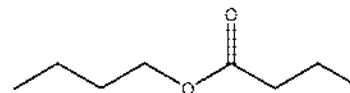
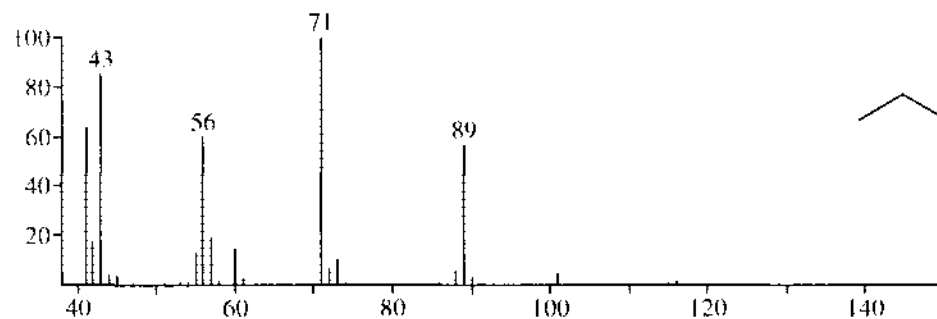
RT: 7.48 AE: 989 KI: 992 **Methyl pentanoate <2-hydroxy-3-methyl->**
CAS#: 41654-19-7 MF: C₇H₁₄O₃ FW: 146 MSD LIB#: 1108
CN: pentanoic acid, 2-hydroxy-3-methyl-, methyl ester
Synonyms: none
Source: ref. cpd. ex KC Wong, Malaysia



RT: 7.52 AE: 991 KI: 993 **Linalool oxide <dehydroxy-trans->**
CAS#: 54750-70-8 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1011
CN: furan, 2-ethenyltetrahydro-2-methyl-5-(1-methylethenyl)-, trans-
Synonyms: none
Source: Bedoukian Res. ex Art Tucker



RT: 7.58 AE: 993 KI: 994 **Butyl butanoate**
CAS#: 109-21-7 MF: C₈H₁₆O₂ FW: 144 MSD LIB#: 323
CN: butanoic acid, butyl ester
Synonyms: butyl butyrate
Source: Aldrich Chem.



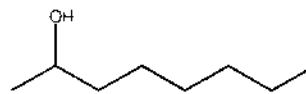
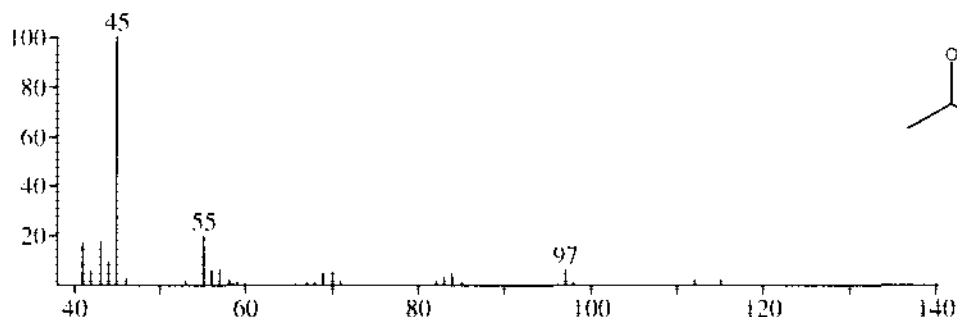
RT: 7.60 AI: 994 KI: 995 **Octanol <2>**

CAS#: 123-96-6 MF: C₈H₁₈O FW: 130 MSD LIB#: 32

CN: 2-octanol

Synonyms: capryl alcohol

Source: ref. epd. ex E. von Rudloff; 0.01% *Thymus vulgare*, Bioflavour 87:327(1988)



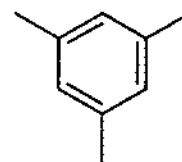
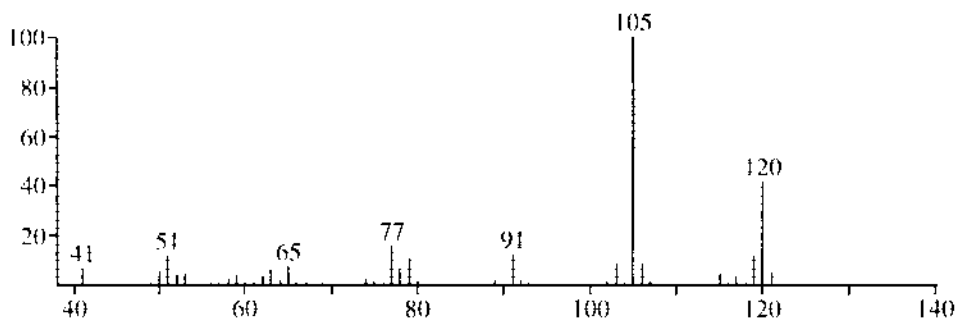
RT: 7.61 AI: 994 KI: 995 **Mesitylene**

CAS#: 108-67-8 MF: C₉H₁₂ FW: 120 MSD LIB#: 202

CN: benzene, 1,3,5-trimethyl-

Synonyms: trimethyl benzene <1,3,5>

Source: *Artemisia judica* oil ex Z. Fleisher



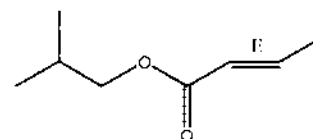
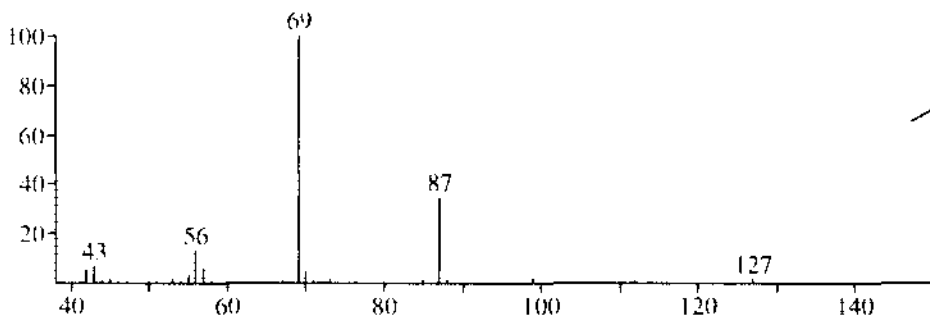
RT: 7.62 AI: 994 KI: 995 **Isobutyl-(2E)-butenoate**

CAS#: 589-66-2 MF: C₈H₁₄O₂ FW: 142 MSD LIB#: 1611

CN: 2-butenoic acid, 2-methylpropyl ester

Synonyms: isobutyl crotonate

Source: Aldrich Chem.



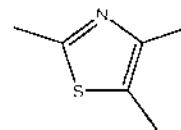
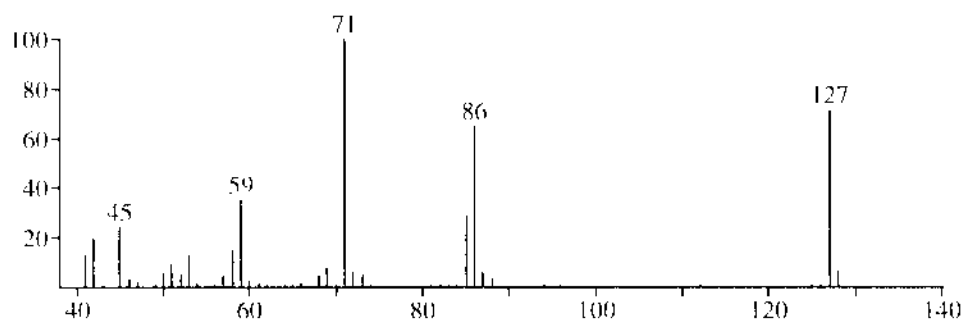
RT: 7.62 AI: 994 KI: 995 **Thiazole <2,4,5-trimethyl->**

CAS#: 13623-11-5 MF: C₆H₉N₁S FW: 127 MSD LIB#: 70

CN: thiazole, 2,4,5-trimethyl-

Synonyms: none

Source: Aldrich Chem.



RT: 7.71 AI: 997 KI: 998 **Ethyl hexanoate**

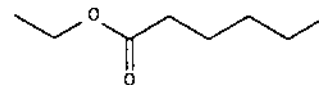
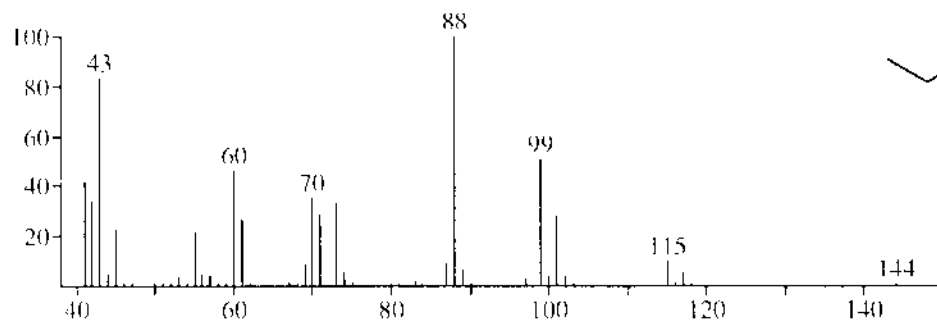
CAS#: 123-66-0 MF: C₈H₁₆O₂ FW: 144 MSD LIB#: 79

CN: hexanoic acid, ethyl ester

Synonyms: ethyl caproate

Source: Aldrich Chem.; 61.01% *Michelia balansae*, p. 15, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong (1993); 9.58% *Michelia figo*;

7.90% *Pyrus serotina* (Asian)



RT: 7.72 AI: 998 KI: 998 **Octanal <n->**

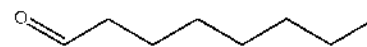
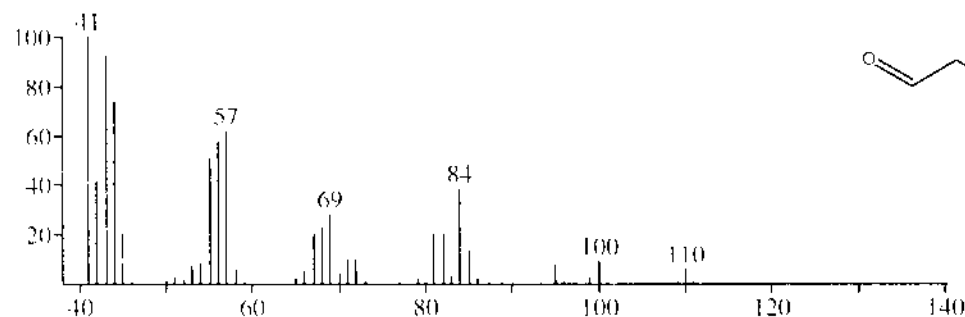
CAS#: 124-13-0 MF: C₈H₁₆O FW: 128 MSD LIB#: 37

CN: 1-octanal

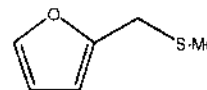
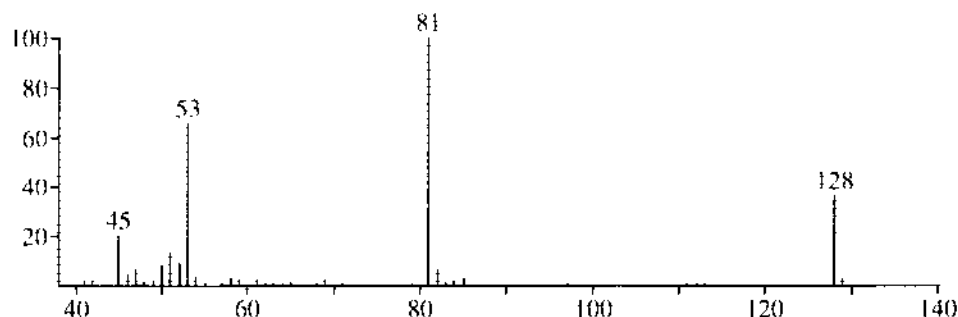
Synonyms: caprylaldehyde

Source: ref. cpd. ex E. von Rudloff; 16.70% *Carum carvi*, FFJ 2:83(1987);

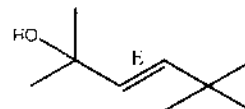
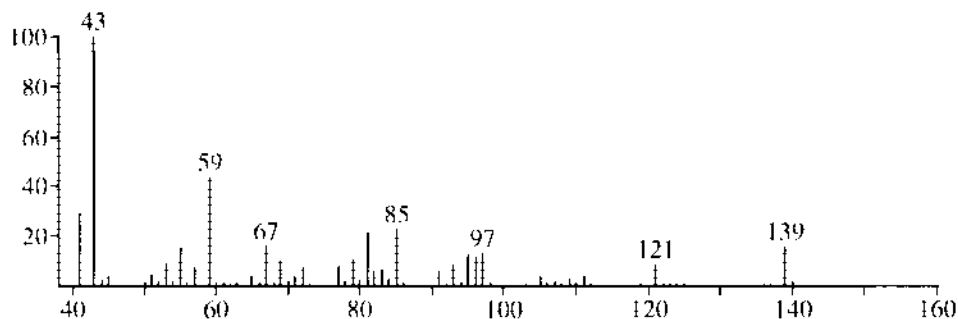
14.17% *Citrus sinensis*; 8.70% *Zanthoxylum avicennae*



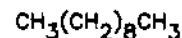
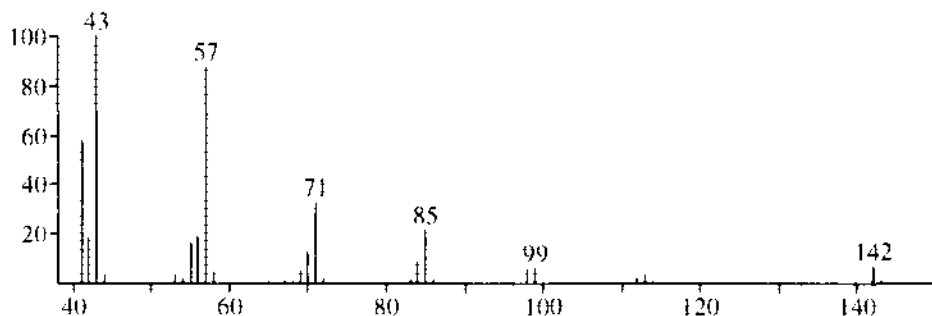
RT: 7.74 AI: 998 KI: 999 **Furfuryl methyl sulfide**
 CAS#: 1438-91-1 MF: C₆H₈O S FW: 128 MSD LIB#: 726
 CN: furan, 2-((methylthio)methyl)-
 Synonyms: none
 Source: Aldrich Chem. ex Art Tucker



RT: 7.75 AI: 999 KI: 999 **Yomogi alcohol**
 CAS#: 26127-98-0 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 231
 CN: 3,6-heptadien-2-ol, 2,5,5-trimethyl-, (E)-
 Synonyms: none
 Source: *Artemisia vestita* oil ex P. Weyerstahl; 4.70% *Artemisia persica*,
 JEOR 4:1(1992); 3.00% *Artemisia judaica*; 3.00% *Artemisia annua*



RT: 7.77 AI: 1000 KI: 1000 **Decane <n->**
 CAS#: 124-18-5 MF: C₁₀H₂₂ FW: 142 MSD LIB#: 89
 CN: decane
 Synonyms: none
 Source: Alkanes mix, Alltech Assoc.; 10.50% *Acacia praecox* (flower),
 PEJ 11:3(1996); 2.08% *Cymbidium sinense* (flower); 1.30% *Narcissus tazetta*



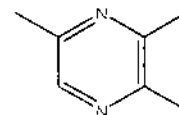
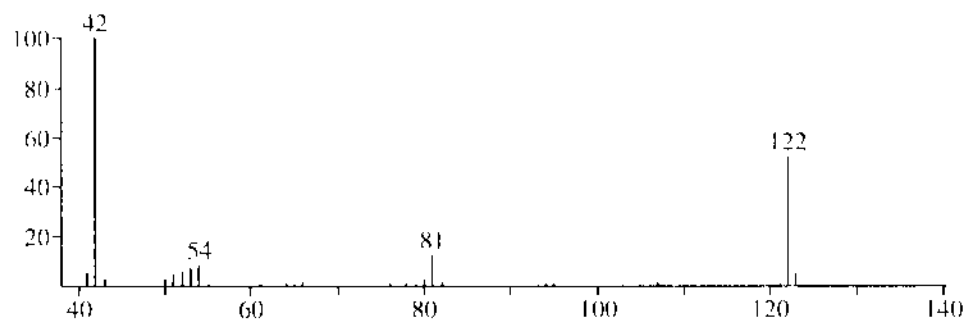
RT: 7.77 AI: 1000 KI: 1000 **Pyrazine <2,3,5-trimethyl->**

CAS#: 14667-55-1 MF: C₇H₁₀N₂ FW: 122 MSD LIB#: 68

CN: pyrazine, trimethyl-

Synonyms: none

Source: Aldrich Chem.



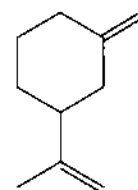
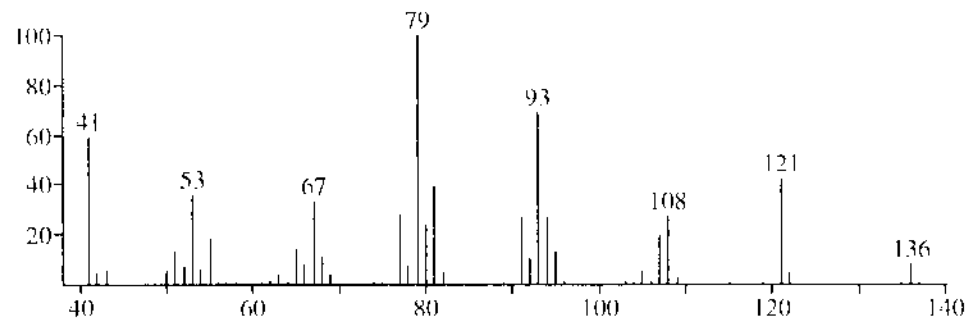
RT: 7.79 AI: 1000 KI: 1000 **Mentha-1(7),8-diene <meta->**

CAS#: 13837-95-1 MF: C₁₀H₁₆ FW: 136 MSD LIB#: 1065

CN: cyclohexane, 1-methylene-3-(1-methylethenyl)-

Synonyms: none

Source: ref. cpd. ex K. Gollnick



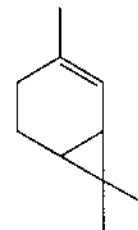
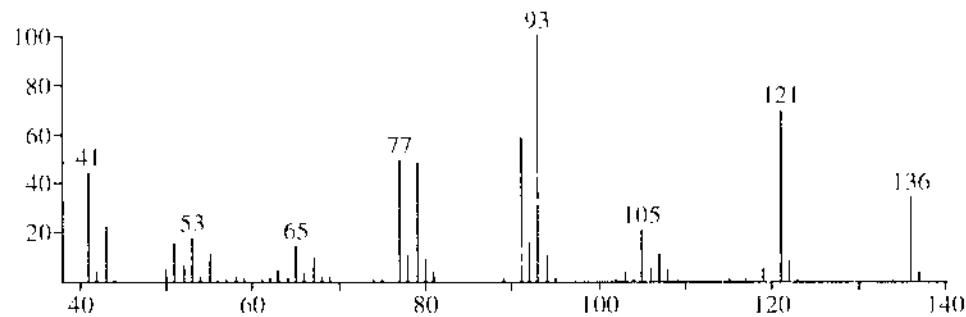
RT: 7.84 AI: 1001 KI: 1002 **Carene <δ-2->**

CAS#: 554-61-0 MF: C₁₀H₁₆ FW: 136 MSD LIB#: 355

CN: bicyclo(4.1.0)hept-2-ene, 3,7,7-trimethyl-

Synonyms: none

Source: Aldrich Chem.



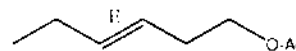
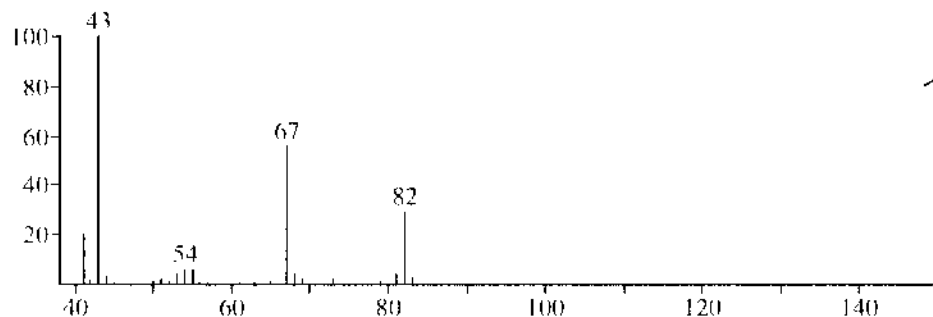
RT: 7.84 AI: 1001 KI: 1002 **Hexenyl acetate <(3E)->**

CAS#: 3681-82-1 MF: C₈H₁₄O₂ FW: 142 MSD LIB#: 807

CN: 3-hexen-1-ol, acetate, (E)-

Synonyms: trans-3-hexenol acetate

Source: acetylation of (E)-3-hexenol(6345); 0.55% *Psidium guajava*, 143 6:143(1991); 0.10% *Anthriscus cerefolium*; 0.02% *Ruta graveolens*



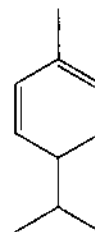
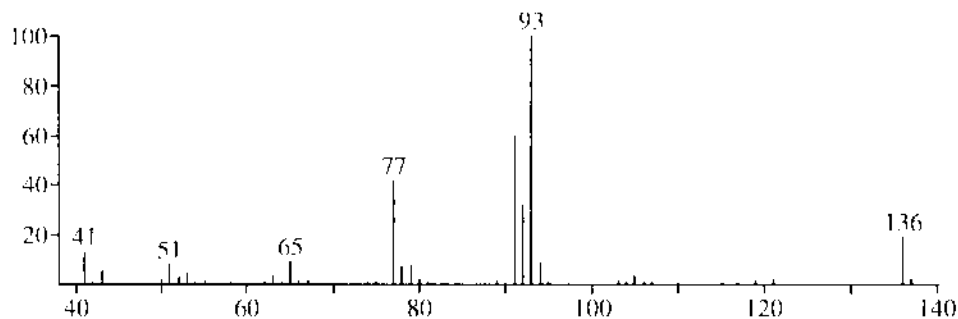
RT: 7.85 AI: 1002 KI: 1002 **Phellandrene <α->**

CAS#: 99-83-2 MF: C₁₀H₁₆ FW: 136 MSD LIB#: 159

CN: methyl-5-(1-methylethyl)-1,3-cyclohexadiene <2->

Synonyms: menthadiene; p-mentha-1,5-diene; 1,3-cyclohexadiene

Source: distillation of black pepper, RP Adams #5452; 58.00% *Anethum graveolens* (herb), JEOR 7:11(1995); 55.42% *Schinus molle*; 48.80% *Monodora myristica*



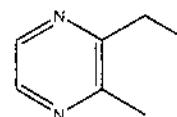
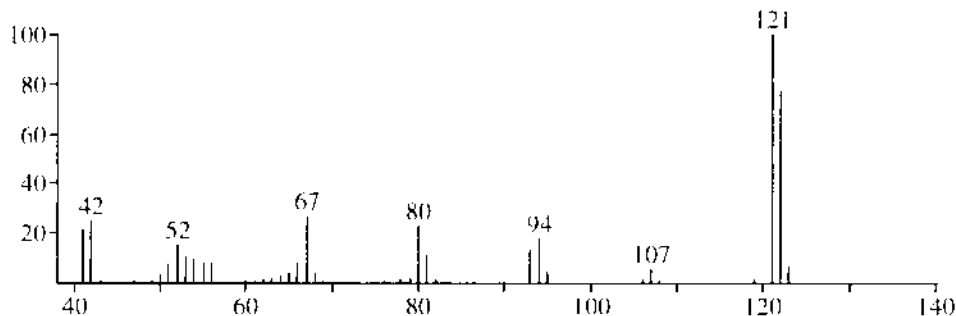
RT: 7.85 AI: 1002 KI: 1002 **Pyrazine <2-ethyl-3-methyl->**

CAS#: 15707-23-0 MF: C₇H₁₀N₂ FW: 122 MSD LIB#: 64

CN: pyrazine, 2-ethyl-3-methyl

Synonyms: none

Source: Aldrich Chem.



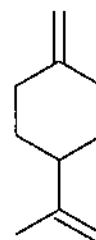
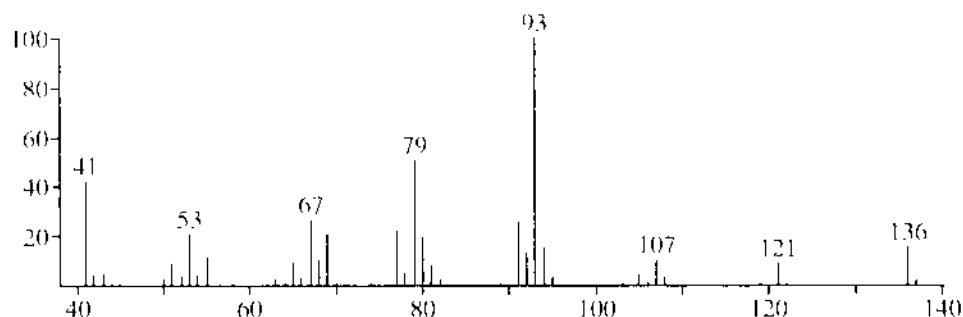
RT: 7.89 AI: 1003 KI: 1004 **Mentha-1(7),8-diene <p>**

CAS#: 499-97-8 MF: C₁₀H₁₆ FW: 136 MSD LIB#: 796

CN: cyclohexane, 1-methylene-4-(1-methylethenyl)-

Synonyms: pseudolimonene

Source: *Heteropyxis natalensis* oil ex P. Weyerstahl



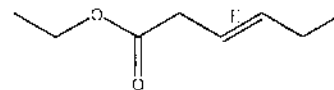
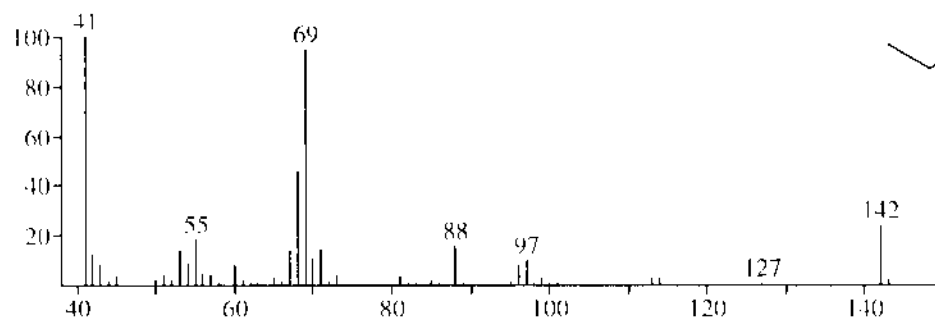
RT: 7.91 AI: 1003 KI: 1004 **Ethyl-(3E)-hexenoate**

CAS#: 2396-83-0 MF: C₈H₁₄O₂ FW: 142 MSD LIB#: 1943

CN: 3-hexenoic acid, ethyl ester-, (3E)-

Synonyms: none

Source: Bedoukian Res. ex J.J. Brophy



RT: 7.93 AI: 1004 KI: 1005 **Hexenyl acetate <(3Z)->**

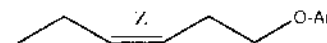
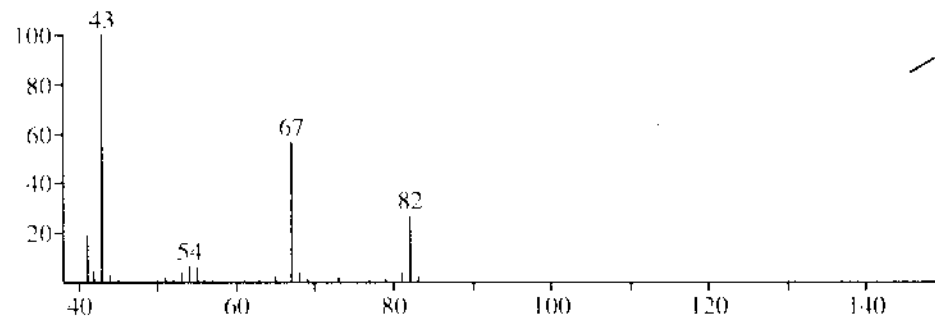
CAS#: 3681-71-8 MF: C₈H₁₄O₂ FW: 142 MSD LIB#: 808

CN: 3-hexen-1-ol, acetate, (Z)-

Synonyms: cis-3-hexenyl acetate

Source: acetylation of (Z)-3-hexenol(6345); 11.00% *Psidium guajava*, FFJ 6:143(1991);

8.12% *Valeriana officinalis*; 7.82% *Convallaria majalis*



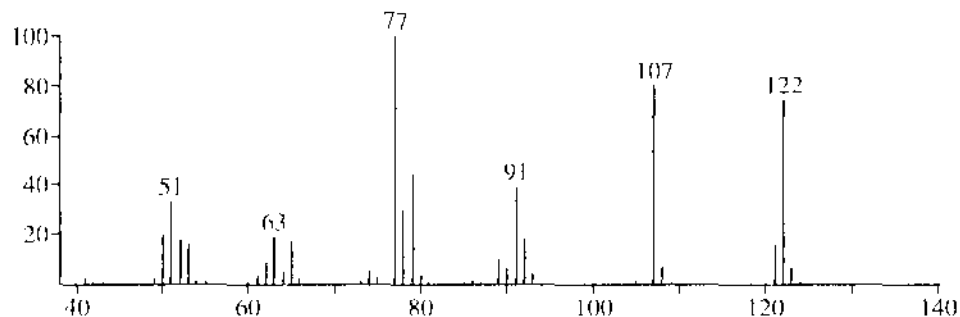
RT: 7.96 AI: 1005 KI: 1006 **Cresol methyl ether <o->**

CAS#: 578-58-5 MF: C₈H₁₀O FW: 122 MSD LIB#: 1664

CN: benzene, 1-methoxy-2-methyl-

Synonyms: o-methyltoluene, o-methylanisole

Source: Aldrich Chem.; 0.44% *Pistacia lentiscus*, Chimika Chronika 10:119(1988);
0.17% *Boswellia carterii*



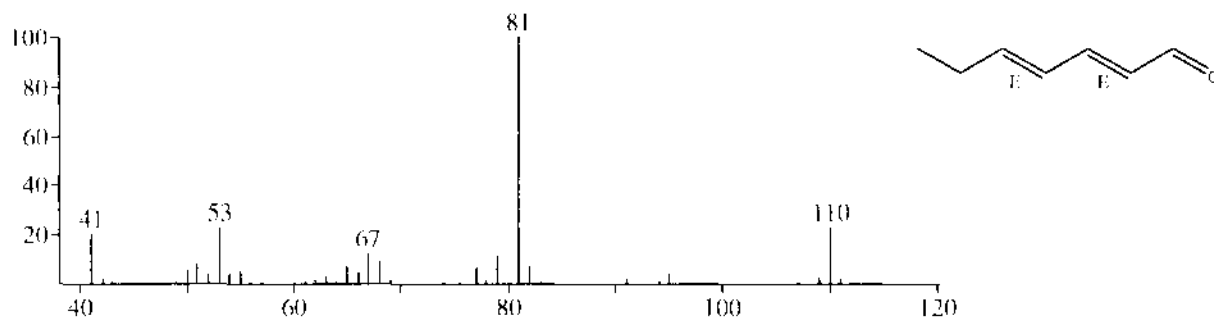
RT: 7.99 AI: 1005 KI: 1007 **Heptadienal <(2E,4E)->**

CAS#: 4313-03-5 MF: C₇H₁₀O FW: 110 MSD LIB#: 2060

CN: 2,4 heptadienal, (2E,4E)-

Synonyms: trans, trans-2,4 heptadienal

Source: Bedoukian Res.; 0.60% *Melissa officinalis*, Lebensm.-Wiss. U.-Technol. 19:482(1986);
0.10% *Narcissus tazetta* (absolute); 0.10% *Rhus coriaria*



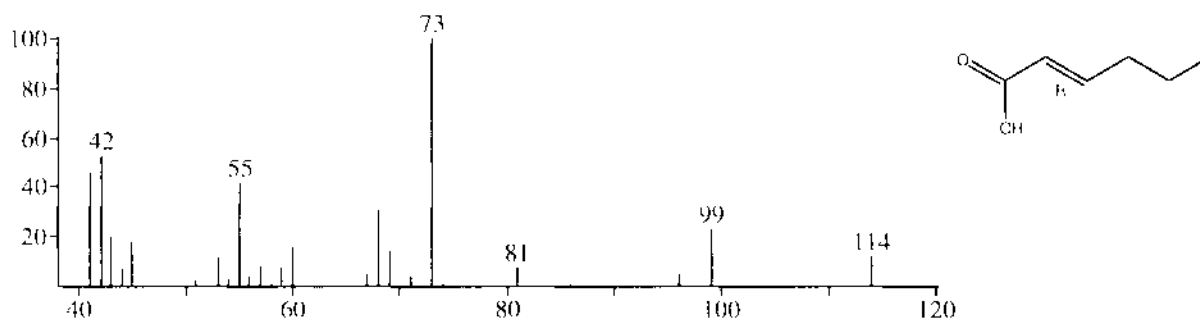
RT: 7.99 AI: 1005 KI: 1007 **Hexenoic acid <(2E)->**

CAS#: 13419-69-7 MF: C₆H₁₀O₂ FW: 114 MSD LIB#: 2062

CN: 2-hexenoic acid, (2E)-

Synonyms: none

Source: Bedoukian Res.; 0.10% *Gardenia jasminoides*, JECOR 8:241(1996);
0.03% *Spartium junceum*; 0.01% *Zizyphus jujuba* fruit



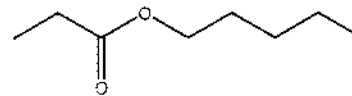
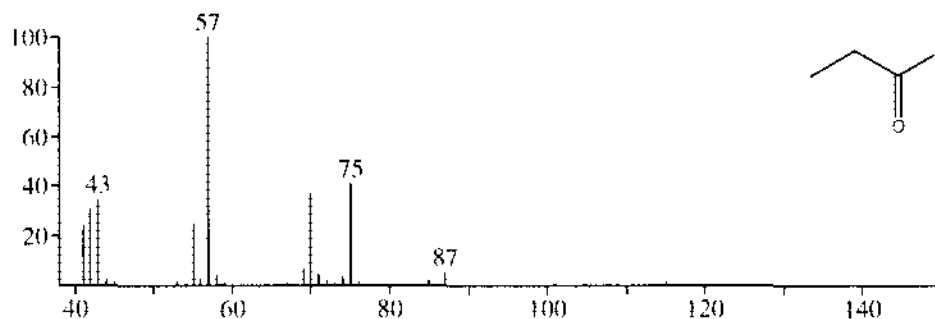
RT: 7.99 AI: 1005 KE: 1007 **Pentyl propanoate**

CAS#: 624-54-4 MF: C₈H₁₆O₂ FW: 144 MSD LIB#: 1251

CN: propanoic acid, pentyl ester

Synonyms: amyl propionate; pentyl propionate

Source: Pfaltz & Bauer ex Art Tucker



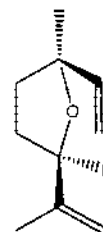
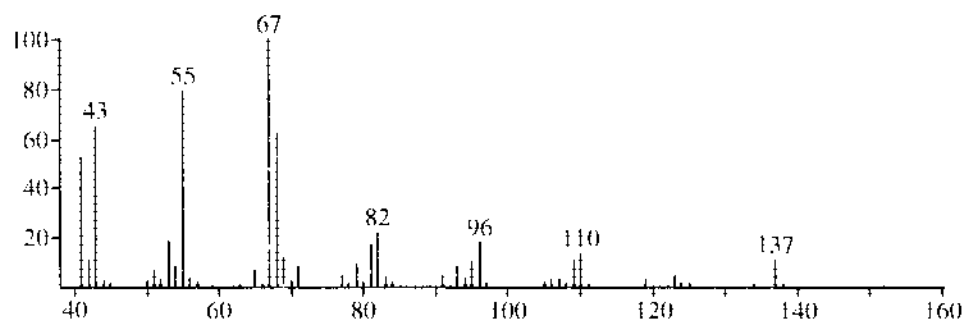
RT: 8.01 AI: 1006 KE: 1008 **Linalool oxide <dehydroxy-cis->**

CAS#: 54750-69-5 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1012

CN: furan, 2-ethenyltetrahydro-2-methyl-5-(1-methylethenyl)-, cis-

Synonyms: none

Source: Bedoukian Res. ex Art Tucker



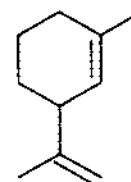
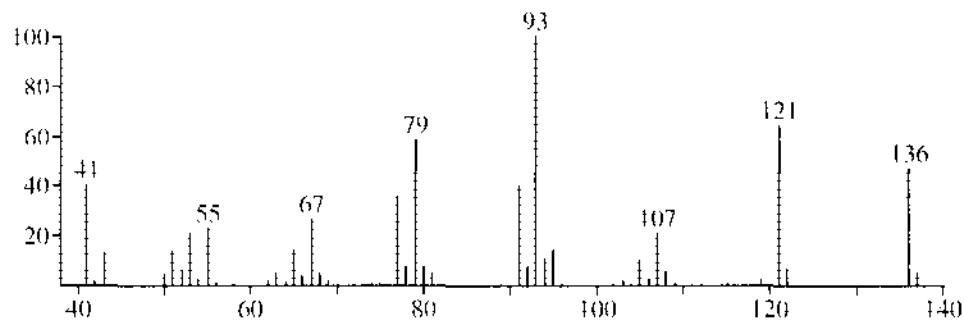
RT: 8.03 AI: 1007 KE: 1008 **Sylvestrene <iso->**

CAS#: 499-03-6 MF: C₁₀H₁₆ FW: 136 MSD LIB#: 1066

CN: cyclohexene, 1-methyl-3-(1-methylethenyl)-

Synonyms: m-mentha-1,8-diene

Source: ref. cpd. ex K. Gollnick



RT: 8.05 AI: 1007 KI: 1009 **Hexyl acetate**

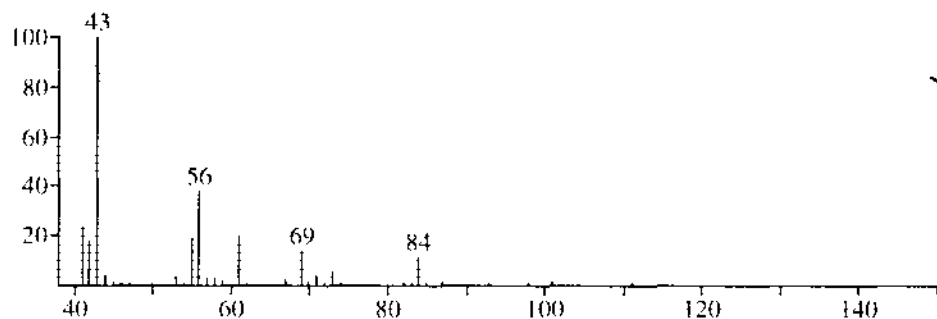
CAS#: 142-92-7 MF: C₈H₁₆O₂ FW: 144 MSD LIB#: 185

CN: acetic acid, hexyl ester

Synonyms: none

Source: distillation of red delicious apples, RP Adams #5756; 6.94% *Mandragora officinarum*.

JEOR 4:187(1992); 5.00% *Anthemis nobilis*; 3.95% *Rosa chinensis*



RT: 8.05 AI: 1007 KI: 1009 **Isoamyl isobutyrate**

CAS#: 2050-01-3 MF: C₉H₁₈O₂ FW: 158 MSD LIB#: 1603

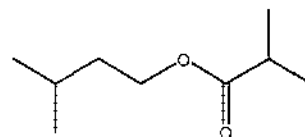
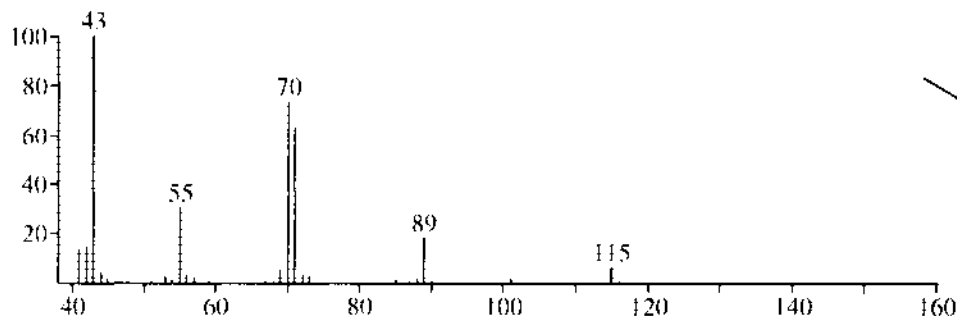
CN: propanoic acid, 2-methyl-, 3-methylbutyl ester

Synonyms: isopentyl isobutyrate

Source: Aldrich Chem.; 3.60% *Eriocephalus punctualis*, Aromatic Plants: Basic & Applied,

N. Margaris, et al., eds., Martinus Nijhoff Publ., The Netherlands(1982);

2.22% *Anthemis nobilis*; 0.10% *Pteronia incana*



RT: 8.10 AI: 1008 KI: 1011 **Carene <δ-3->**

CAS#: 13466-78-9 MF: C₁₀H₁₆ FW: 136 MSD LIB#: 1655

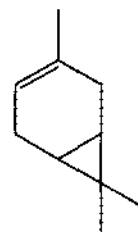
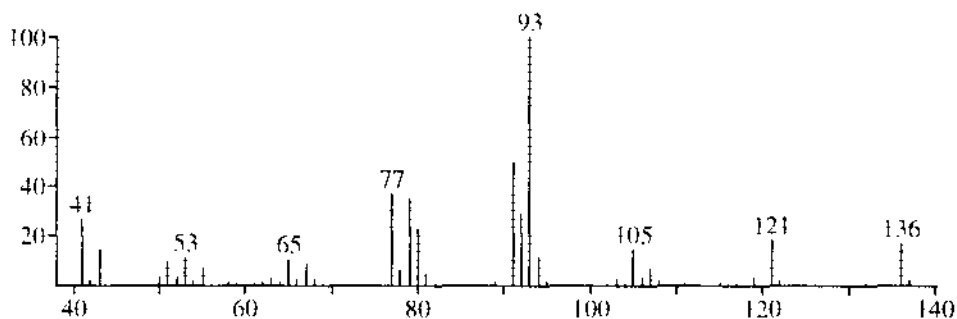
CN: trimethylbicyclo(4.1.0)hept-3-ene <3.7.7->

Synonyms: none

Source: *Juniperus gamboana* ex RP Adams #2574; common in conifers; black pepper;

65.30% *Pistacia lentiscus*, FFI 6:229(1991); 54.60% *Robinia pseudoacacia*;

44.00% *Abies semenovii*



RT: 8.17 AI: 1010 KI: 1013 **Hexenyl acetate <(2E)->**

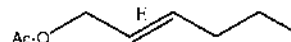
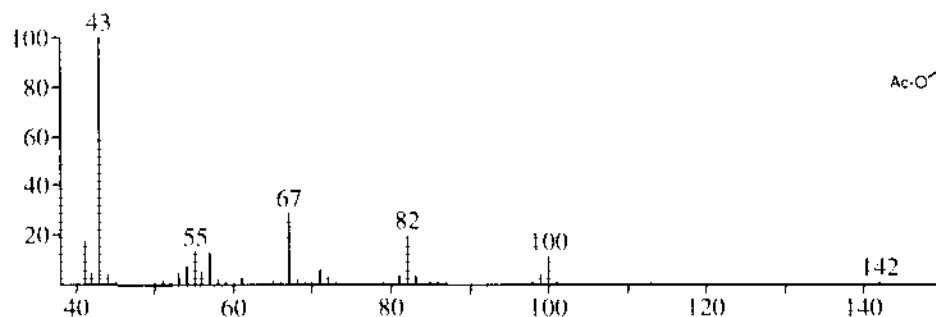
CAS#: 2497-18-9 MF: C₈H₁₄O₂ FW: 142 MSD LIB#: 2048

CN: 2-hexen-1-ol, acetate, (2E)-

Synonyms: none

Source: Bedoukian Res.: 1.80% *Valeriana officinalis*, Dragoco Rept. 3:31(1/1992);

0.29% *Lawsonia inermis*; 0.24% *Spondias cytherea*



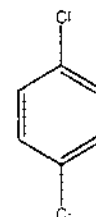
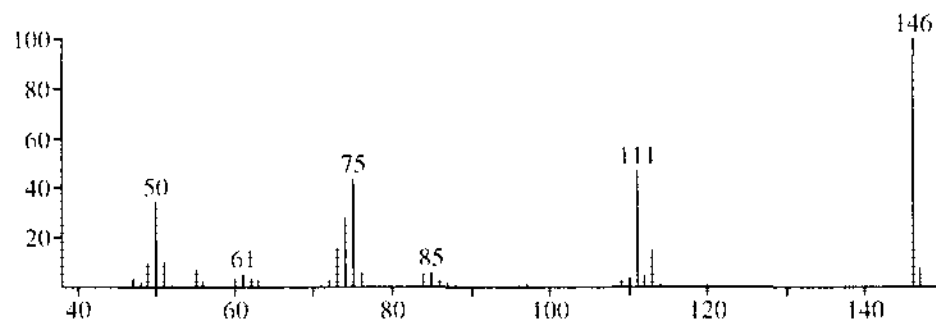
RT: 8.18 AI: 1011 KI: 1013 **Dichlorobenzene <1,4->**

CAS#: 106-46-7 MF: C₆H₄Cl₂ FW: 146 MSD LIB#: 590

CN: benzene, 1,4-dichloro-

Synonyms: p-dichlorobenzene; paracide; parazene; para crystals

Source: ENOZ Inc., mothballs



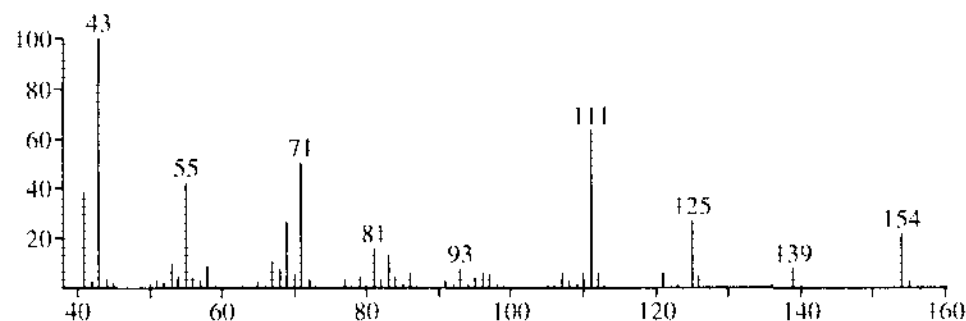
RT: 8.22 AI: 1012 KI: 1014 **Cineole <1,4->**

CAS#: 470-67-7 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1001

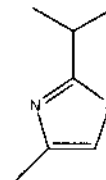
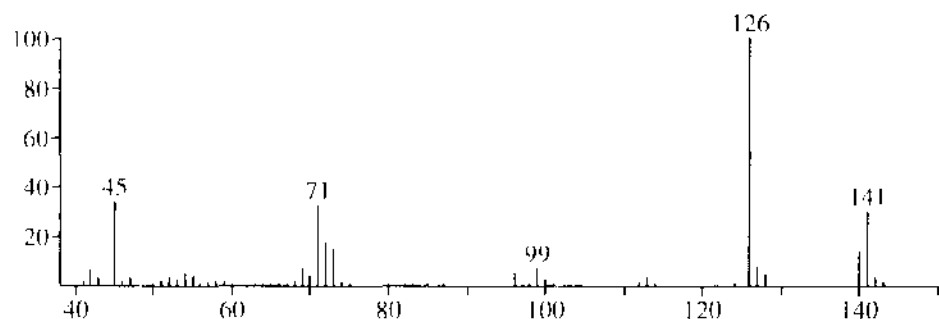
CN: 7-oxabicyclo(2.2.1) heptane, 1-methyl-4-(1-methylethyl)-

Synonyms: p-menthane, 1,4-epoxy-

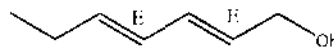
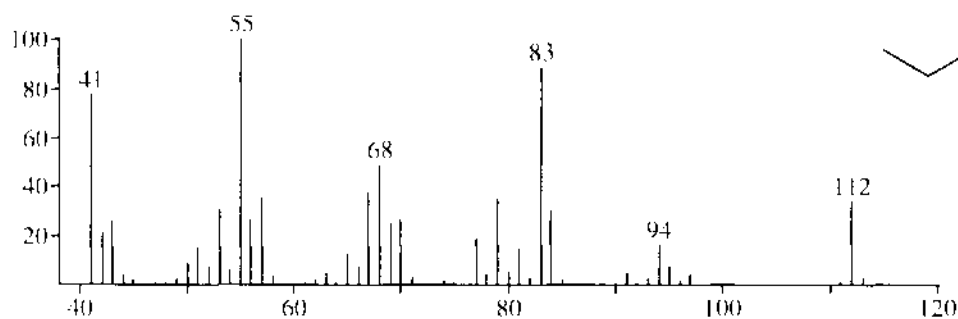
Source: West Indian lime oil ex Lorann Co.: 1.70% *Citrus aurantifolia*, p. 325, in: Flav. & Frag : A World Persp., Lawrence, et al., Proc. 10th Int. Cong. of Ess Oil, Elsevier, Amsterdam(1988); 1.06% *Terminalia bentzoe*; 0.80% *Eucalyptus globulus*



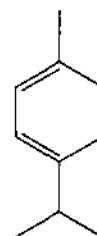
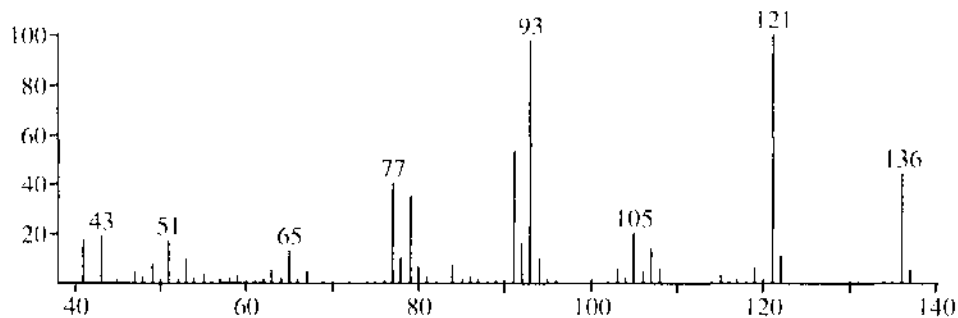
RT: 8.24 AI: 1012 KI: 1015 **Isopropyl-4-methyl thiazole <2>**
 CAS#: 15679-13-7 ME: C₇H₁₁N S FW: 141 MSD LIB#: 1624
 CN: thiazole, 4-methyl-2-(1-methylethyl)-
 Synonyms: thiazole<2-isopropyl-4 methyl->
 Source: Aldrich Chem.



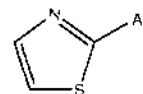
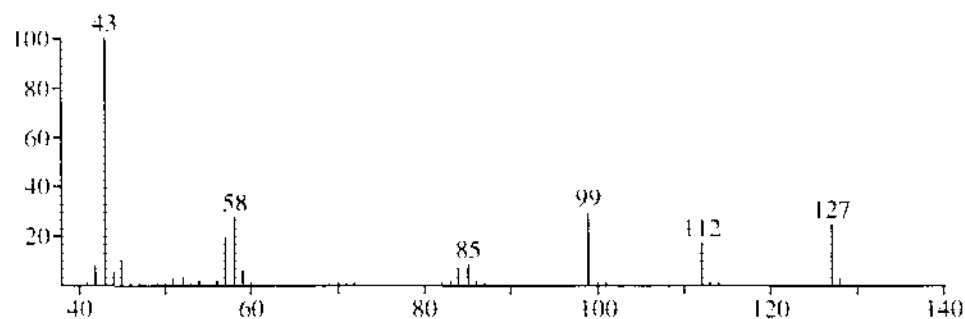
RT: 8.27 AI: 1013 KI: 1016 **Heptadienol <(2E,4E)->**
 CAS#: 33467-79-7 ME: C₇H₁₂O FW: 112 MSD LIB#: 2103
 CN: 2,4-heptadien-1-ol, (2E,4E)-
 Synonyms: none
 Source: Bedoukian Res.



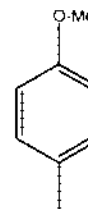
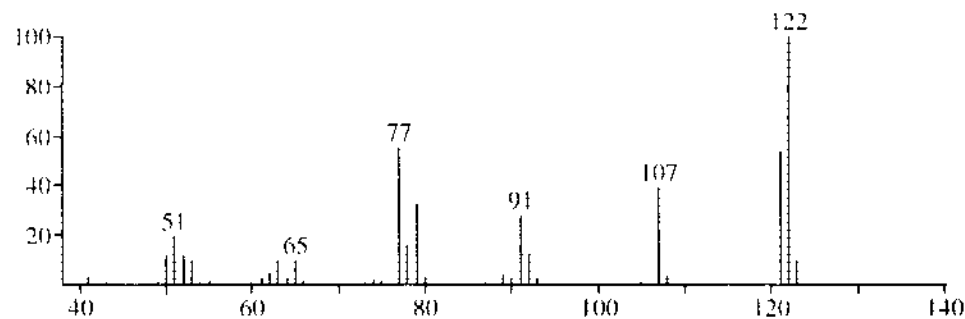
RT: 8.30 AI: 1014 KI: 1017 **Terpinene <α>**
 CAS#: 99-86-5 ME: C₁₀H₁₆ FW: 136 MSD LIB#: 900
 CN: 1,3-cyclohexadiene, 1-methyl-4-(1-methylethyl)-
 Synonyms: p-mentha-1,3-diene; terpinene
 Source: *Juniperus coahuilensis* leaf oil, RP Adams #2121; 16.83% *Coleus aromaticus*,
 J. Ethnopharmacol. 32:57(1991); 11.90% *Melaleuca alternifolia*; 10.70% *Citrus paradisi*



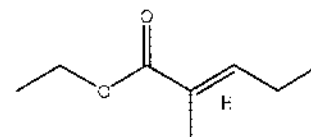
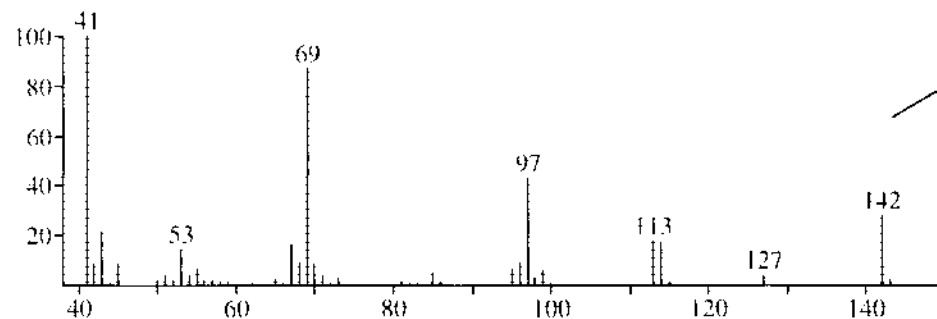
RT: 8.32 AI: 1014 KI: 1018 **Thiazole <2-acetyl->**
 CAS#: 24295-03-2 MF: C₅H₅NOS FW: 127 MSD LIB#: 52
 CN: ethanone, 1-(2-thiazolyl)-
 Synonyms: ketone, methyl 2-thiazolyl
 Source: Aldrich Chem.



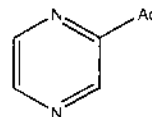
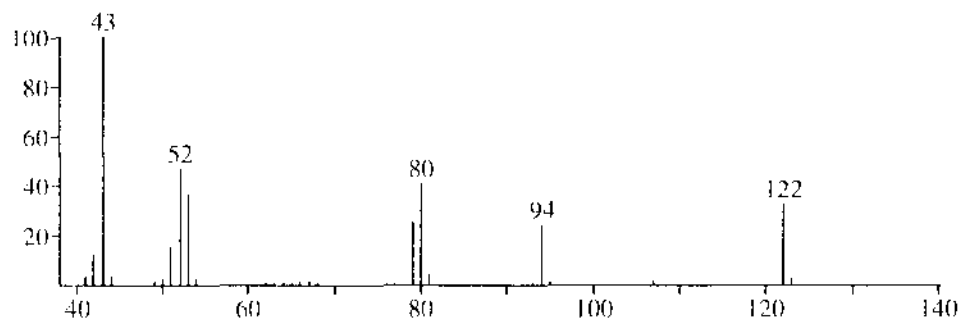
RT: 8.34 AI: 1015 KI: 1018 **Anisole <p-methyl->**
 CAS#: 104-93-8 MF: C₈H₁₀O FW: 122 MSD LIB#: 172
 CN: benzene, 1-methoxy-4-methyl-
 Synonyms: p-methoxytoluene; p-methylanisole; cresol, methyl ether<p->
 Source: Aldrich Chem.



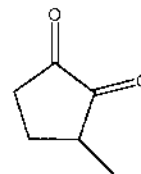
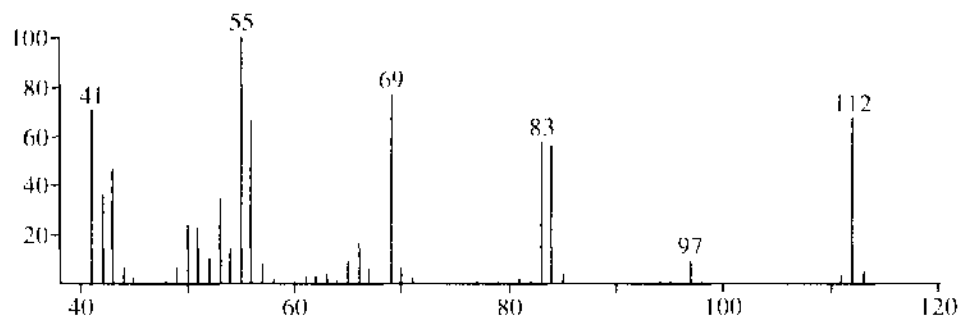
RT: 8.41 AI: 1017 KI: 1020 **Ethyl 2-methyl-2-pentenoate <(E)->**
 CAS#: 1617-40-9 MF: C₈H₁₄O₂ FW: 142 MSD LIB#: 2144
 CN: 2-pentenoic acid, 2-methyl-, ethyl ester, (2E-)
 Synonyms: none
 Source: Bedoutkian Res.



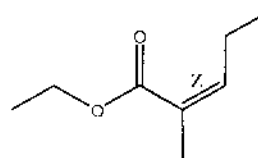
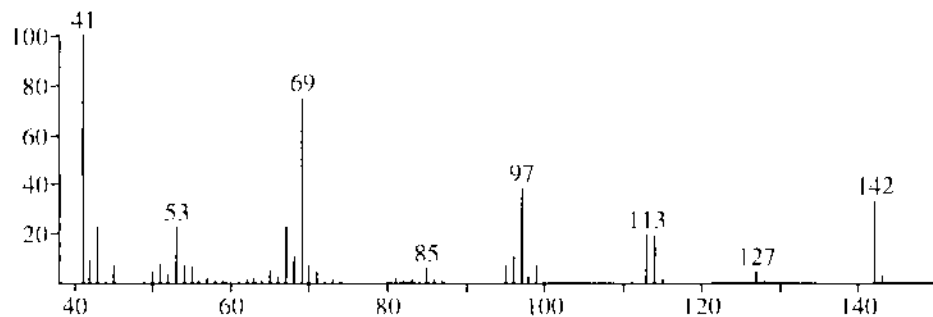
RT: 8.41 AE: 1017 KI: 1020 **Pyrazine <2-acetyl->**
 CAS#: 22047-25-2 MF: C₆H₆N₂O FW: 122 MSD LIB#: 50
 CN: ethanone, 1-pyrazinyl-
 Synonyms: ketone, methyl pyrazinyl
 Source: Aldrich Chem.



RT: 8.43 AE: 1017 KI: 1021 **Cyclopentanedione <3-methyl-1,2->**
 CAS#: 765-70-8 MF: C₆H₈O₂ FW: 112 MSD LIB#: 1691
 CN: 1,2-cyclopentanedione, 3-methyl-
 Synonyms: methyl cyclopentanone
 Source: Aldrich Chem.



RT: 8.51 AE: 1019 KI: 1023 **Ethyl 2-methyl-2-pentenoate <(Z)->**
 CAS#: 1617-39-6 MF: C₈H₁₄O₂ FW: 142 MSD LIB#: 2145
 CN: 2-pentenoic acid, 2-methyl-, ethyl ester, (ZZ-)
 Synonyms: none
 Source: Bedoukian Res.



RT: 8.53 AI: 1020 KI: 1024 **Cymene <p->**

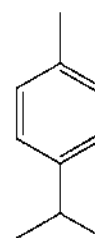
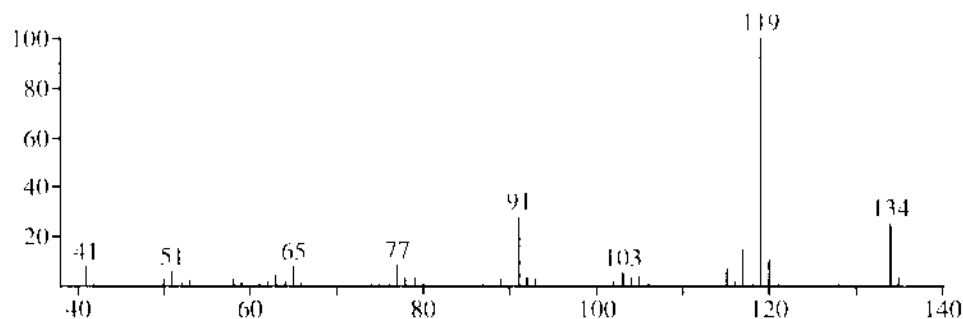
CAS#: 99-87-6 MF: C₁₀H₁₄ FW: 134 MSD LIB#: 306

CN: benzene, 1-methyl-4-(1-methylethyl)-

Synonyms: p-isopropyltoluene; p-cymol; camphogen

Source: Black pepper distillation ex Shilling Co.; 83.75% *Origanum saccatum*,

JEOR 7:175(1995); 53.07% *Origanum solymicum*; 44.13% *Thymus vulgaris*



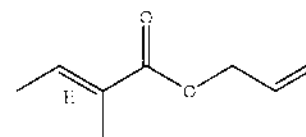
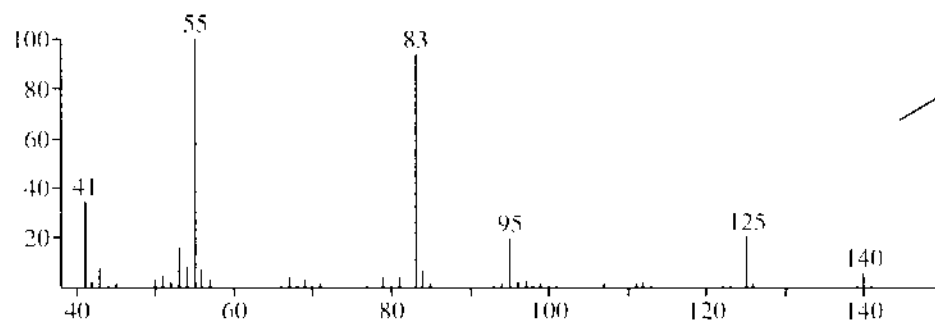
RT: 8.57 AI: 1021 KI: 1025 **Allyl tiglate**

CAS#: 7493-71-2 MF: C₈H₁₂O₂ FW: 140 MSD LIB#: 43

CN: 2-butenoic acid, 2-methyl-, 2-propenyl ester, (E)-

Synonyms: tiglic acid, allyl ester

Source: Aldrich Chem.



RT: 8.57 AI: 1021 KI: 1025 **Methyl heptanoate**

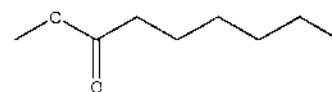
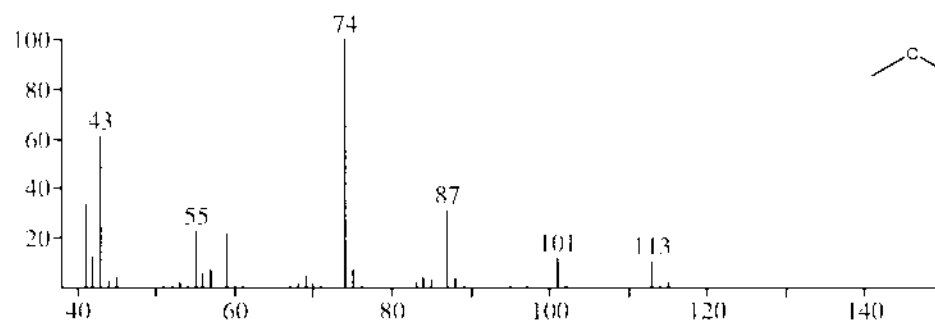
CAS#: 106-73-0 MF: C₈H₁₆O₂ FW: 144 MSD LIB#: 1098

CN: heptanoic acid, methyl ester

Synonyms: methyl enanthate

Source: Aldrich Chem.; 0.37% *Humulus lupulus* (Neomexicanus cultivar).

Z. Naturforsch. 37a:565(1982)



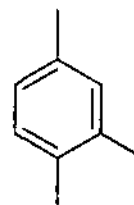
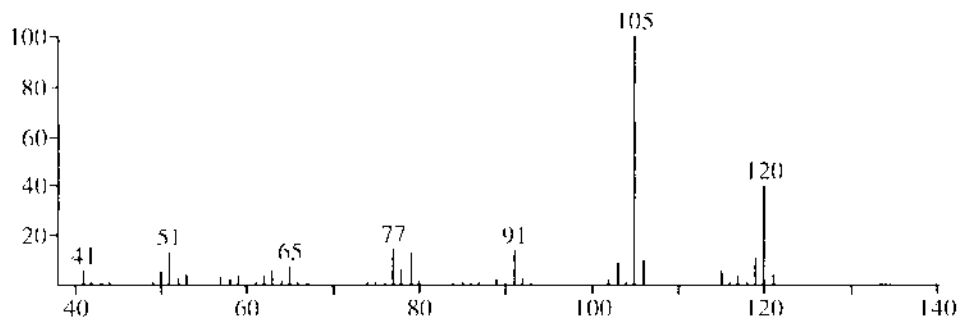
RT: 8.57 AI: 1021 KI: 1025 **Trimethyl benzene <1,2,4->**

CAS#: 95-63-6 MF: C₉H₁₂ FW: 120 MSD LIB#: 203

CN: benzene, 1,2,4-trimethyl-

Synonyms: pseudocumene; methyl-p-xylene; psi.-cumene

Source: *Artemisia judica* oil ex Z. Fleisher; 0.68% *Artemisia judaica*, JHCR 2:271(1990); 0.10% *Lawsonia inermis*; 0.01% *Murraya koenigii*



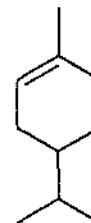
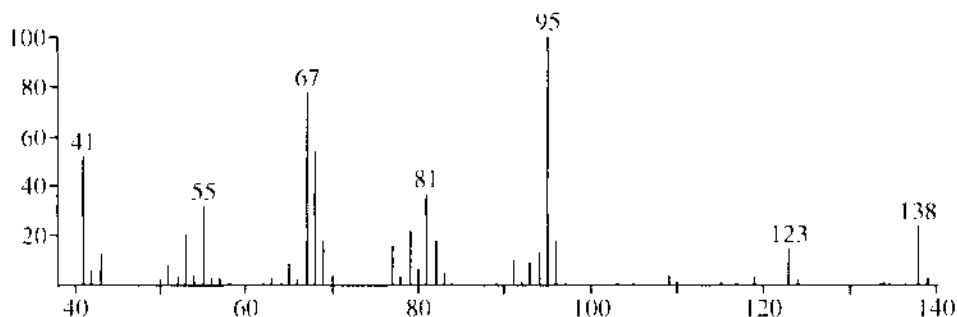
RT: 8.58 AI: 1021 KI: 1026 **Menthene <1-p->**

CAS#: 5502-88-5 MF: C₁₀H₁₈ FW: 138 MSD LIB#: 1076

CN: cyclohexene, 1-methyl-4-(1-methylethyl)-

Synonyms: carvomenthene; 4-isopropyl-1-methylcyclohexene

Source: ref. cpd. ex E. von Rudloff



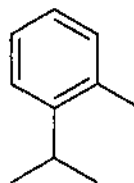
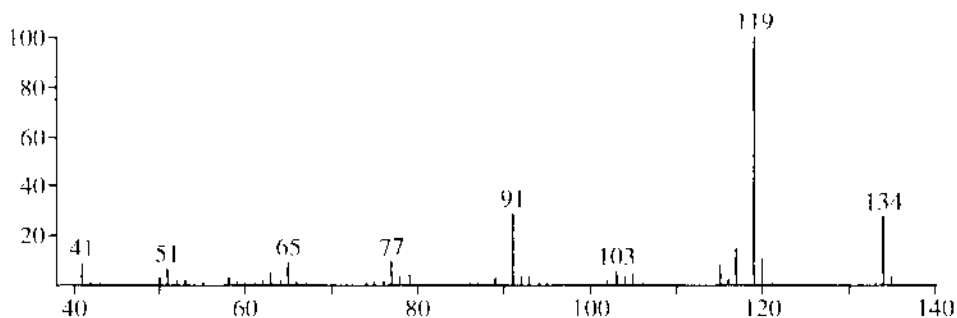
RT: 8.59 AI: 1022 KI: 1026 **Cymene <o->**

CAS#: 527-84-4 MF: C₁₀H₁₄ FW: 134 MSD LIB#: 1529

CN: benzene, 1-methyl-2-(1-methylethyl)-

Synonyms: none

Source: Valencia orange leaf oil ex MG Moshonas, USDA; 2.20% *Achillea colina*, Rastit. Resur 21:69(1985); 0.50% *Boswellia carterii*; 0.46% *Persea podadenia* (leaf)



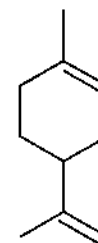
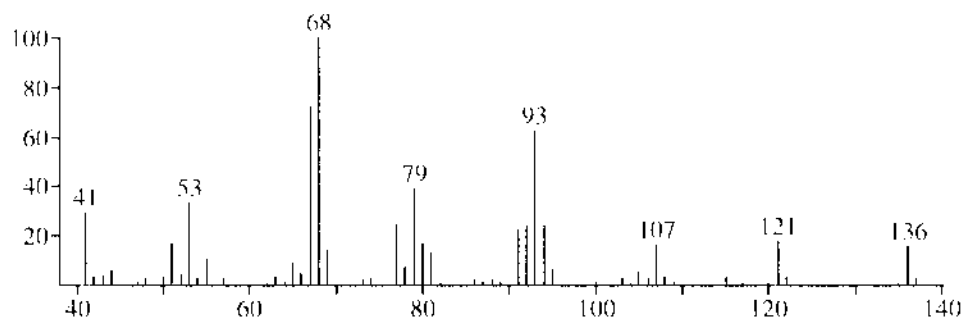
RT: 8.69 AI: 1024 KI: 1029 **Limonene**

CAS#: 138-86-3 MF: C₁₀H₁₆ FW: 136 MSD LIB#: 164

CN: methyl-4-(1-methylethenyl)cyclohexene <1>

Synonyms: cajeputene; cinene; kauschin; nesol; p-mentha-1,8-diene; dipentene

Source: distillation of sweet anis leaves, Calif., RP Adams #5452; 96.49% *Citrus sinensis*, Zhiwu, Xuebao, 30:623(1988); 96.41% *Citrus aurantium*; 95.00% *Citrus deliciosa*



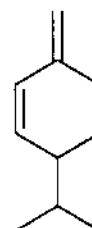
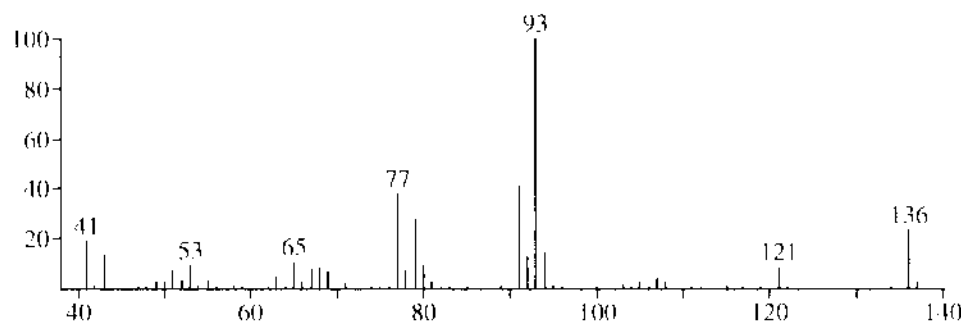
RT: 8.70 AI: 1025 KI: 1029 **Phellandrene <β>**

CAS#: 555-10-2 MF: C₁₀H₁₆ FW: 136 MSD LIB#: 161

CN: methyl-6-(1-methylethyl)cyclohexene <3>

Synonyms: p-menth-1(7),2-diene

Source: distillation of sweet anis leaves(Calif.), RP Adams #5452; 63.05% *Levisticum officinale*, p. 641, in: Flav. & Frag.: A World Persp., Lawrence, et al., Elsevier Science Publishers, Amsterdam(1988); 61.00% *Angelica archangelica*; 21.00% *Lavandula pinnata*



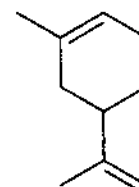
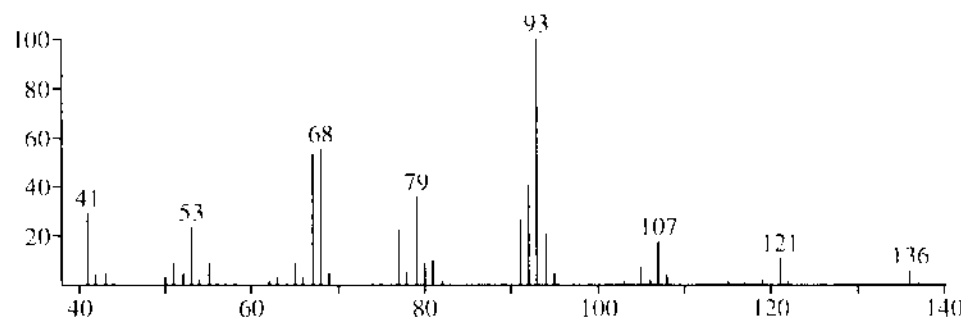
RT: 8.73 AI: 1025 KI: 1030 **Sylvestrene**

CAS#: 1461-27-4 MF: C₁₀H₁₆ FW: 136 MSD LIB#: 1453

CN: cyclohexene, 1-methyl-5-(1-methylethenyl)-

Synonyms: m-mentha-1(6),8-diene

Source: ref. epd. ex E. von Rudloff



RT: 8.76 AI: 1026 KI: 1031 **Cineole <1,8->**

CAS#: 470-82-6 MI: C₁₀H₁₈O FW: 154 MSD LIB#: 160

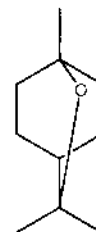
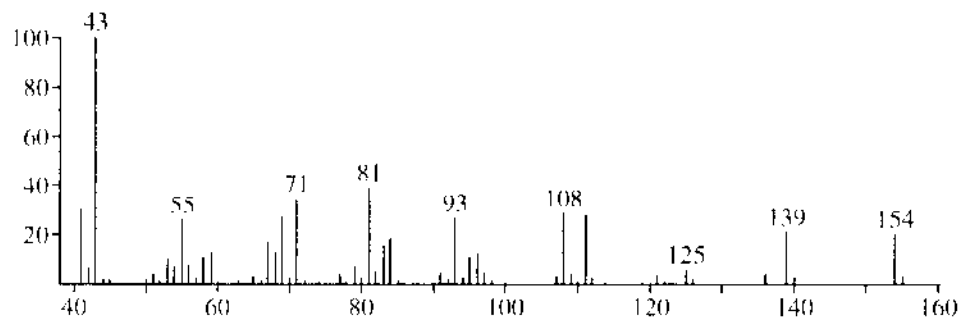
CN: 2-oxabicyclo(2.2.2)octane, 1,3,3-trimethyl-

Synonyms: cajuputol, 1,8-epoxy-p-menthane; eucalyptol; zedoary oil; eucapur; trepan

Source: *Foeniculum vulgare* (Calif. anis) leaf oil: 95.13% *Eucalyptus globulus*,

p. 52, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong (1993);

70.00% *Melaleuca viridiflora*; 69.00% *Eucalyptus cinerea*



RT: 8.77 AI: 1026 KI: 1031 **Benzyl alcohol**

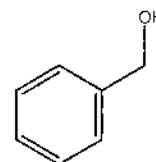
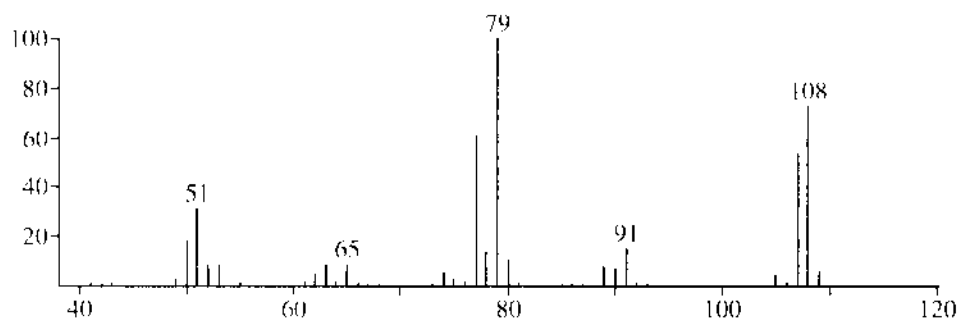
CAS#: 100-51-6 MI: C₇H₈O FW: 108 MSD LIB#: 288

CN: benzenemethanol

Synonyms: phenylmethanol; benzenecarbinol; α -hydroxytoluene

Source: Jasmin absolute ex A.F. Thomas; 35.20% *Convallaria majalis*,

Dragoco Rep. 5:21 (1/1996); 35.08% *Daphne tangutica*; 21.00% *Narcissus poeticus*



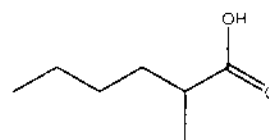
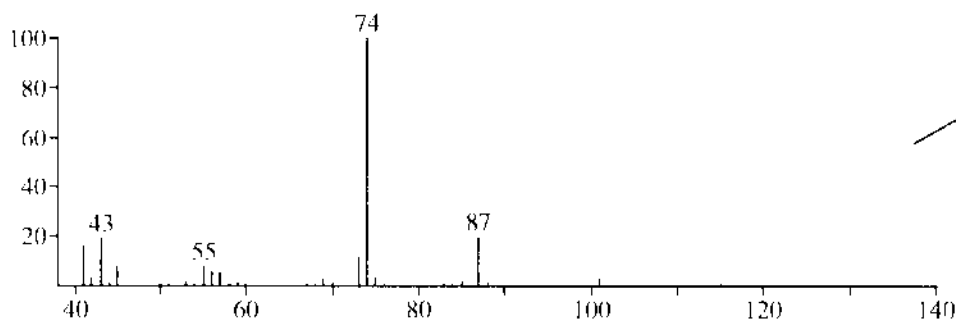
RT: 8.80 AI: 1027 KI: 1032 **Hexanoic acid <2-methyl->**

CAS#: 4536-23-6 MI: C₇H₁₄O₂ FW: 130 MSD LIB#: 1974

CN: hexanoic acid, 2-methyl-

Synonyms: 2-methyl caproic acid

Source: Bedoukian Res. ex J.J. Brophy



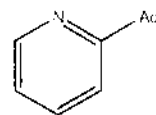
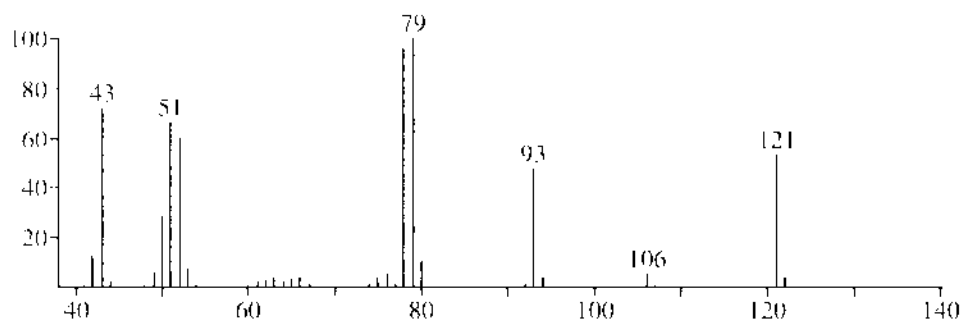
RT: 8.83 AI: 1028 KI: 1033 **Acetyl pyridine <2->**

CAS#: 1122-62-9 MF: C₇H₇N O FW: 121 MSD LIB#: 49

CN: ethanone, 1-(2-pyridinyl)-

Synonyms: 2-pyridyl methyl ketone

Source: Aldrich Chem.



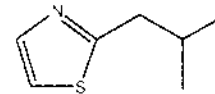
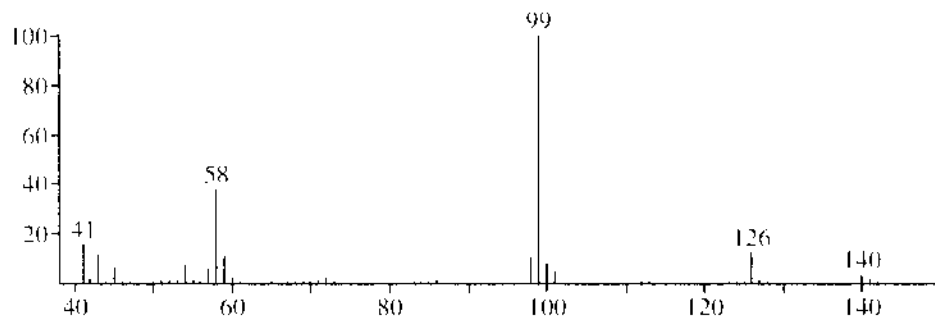
RT: 8.89 AI: 1030 KI: 1035 **Thiazole <2-isobutyl->**

CAS#: 18640-74-9 MF: C₇H₁₁N S FW: 141 MSD LIB#: 56

CN: thiazole, 2-(2-methylpropyl)-

Synonyms: 2-isobutylthiazole

Source: Aldrich Chem.



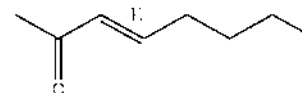
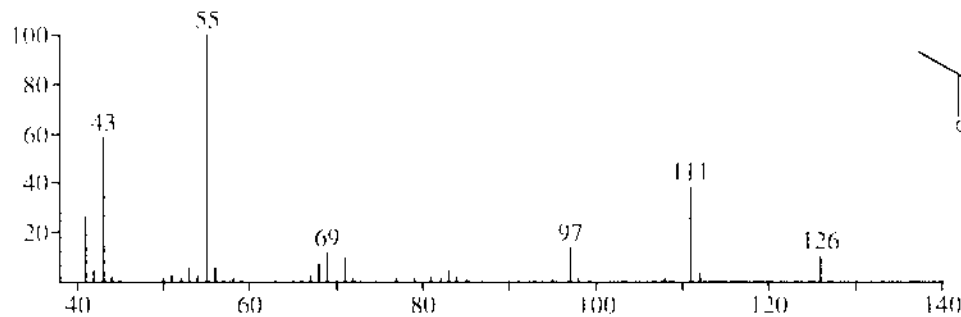
RT: 8.90 AI: 1030 KI: 1035 **Octen-2-one <(3E)->**

CAS#: 18402-82-9 MF: C₈H₁₄O FW: 126 MSD LIB#: 1941

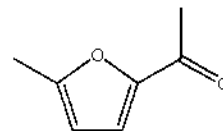
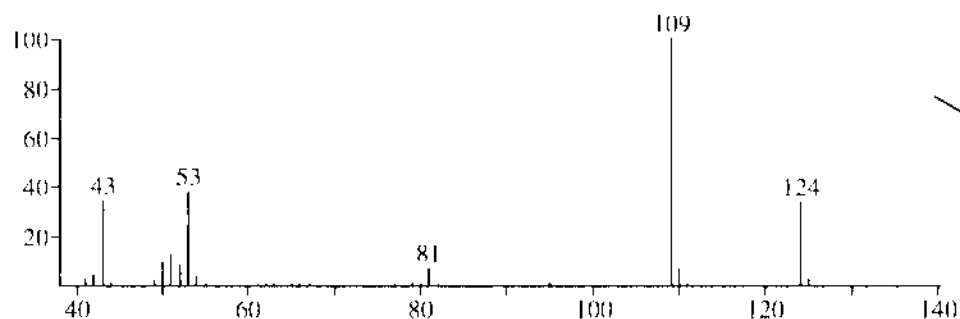
CN: 3-octen-2-one (3E)-

Synonyms: none

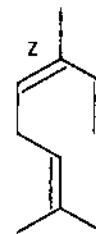
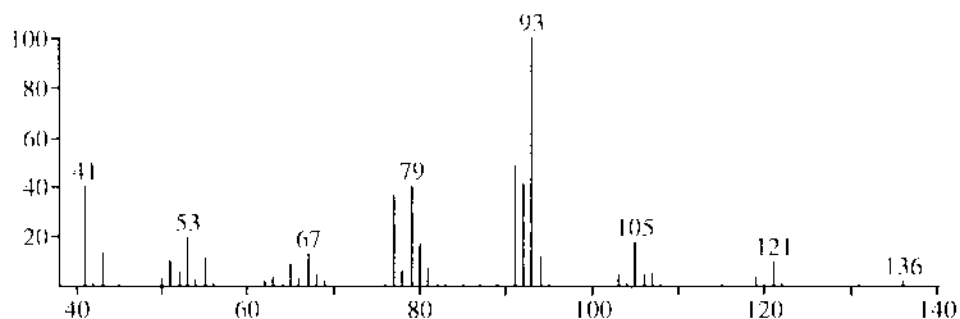
Source: Bedoukian Res. ex JJ Brophy



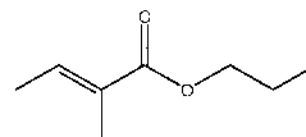
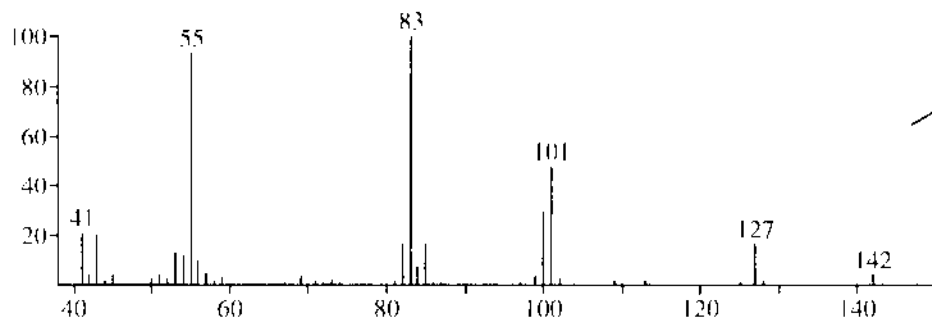
RT: 8.95 AI: 1031 KI: 1037 **Furan <2-acetyl-5-methyl->**
 CAS#: 1193-79-9 MF: C7 H8 O2 FW: 124 MSD LIB#: 724
 CN: 2-acetyl-5-methylfuran
 Synonyms: 2-methyl-5-acetylfuran; ethanone, 1-(5-methyl-2-furanyl)-
 Source: Aldrich Chem.



RT: 8.96 AI: 1032 KI: 1037 **Ocimene <(Z)-β->**
 CAS#: 3338-55-4 MF: C10 H16 FW: 136 MSD LIB#: 165
 CN: 1,3,6-octatriene, 3,7-dimethyl-, (3Z)-
 Synonyms: cis-ocimene
 Source: distillation of sweet anis leaves, Calif., RP Adams #5452: 42.30% *Tagetes minuta*,
 Perf. Flav. 10:73(1985); 40.20% *Tithonia diversifolia*; 32.23% *Cloranthus spicatus*



RT: 8.99 AI: 1032 KI: 1038 **Propyl tiglate**
 CAS#: 61692-83-9 MF: C8 H14 O2 FW: 142 MSD LIB#: 44
 CN: 2-butenoic acid, 2-methyl-, propyl ester, (E)-
 Synonyms: none
 Source: Aldrich Chem.



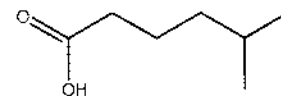
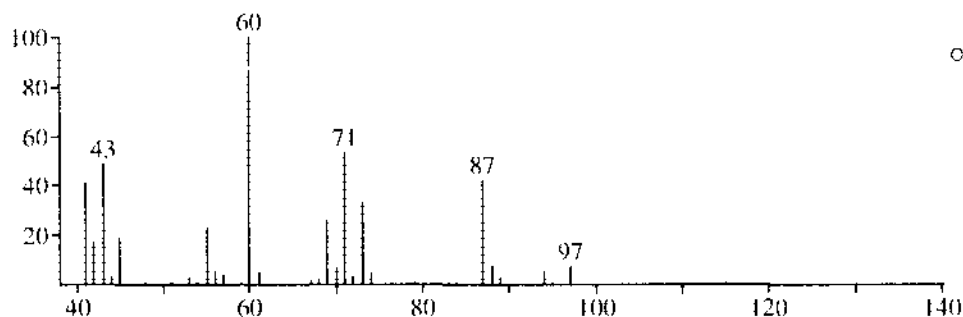
RT: 9.03 AI: 1033 KI: 1039 **Hexanoic acid <5-methyl->**

CAS#: 628-46-6 MF: C7 H14 O2 FW: 130 MSD LIB#: 2063

CN: hexanoic acid, 5-methyl-

Synonyms: caproic acid, 5-methyl-; isocaproic acid

Source: Bedoukian Res.



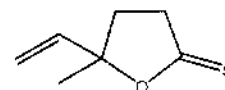
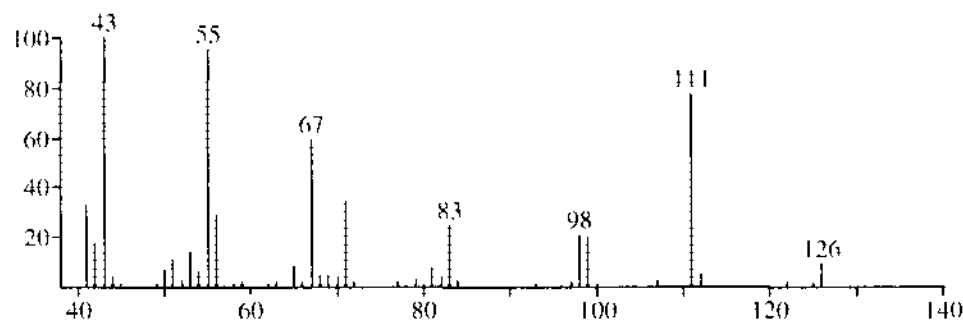
RT: 9.04 AI: 1034 KI: 1039 **Lavender lactone**

CAS#: 1073-11-6 MF: C7 H10 O2 FW: 126 MSD LIB#: 195

CN: 2(3H)-furanone, 5-ethenyldihydro-5-methyl-

Synonyms: methyl hex-5-enolide <4->; γ -vinyl- γ -valerolactone

Source: Armoise a davanone oil ex Guy Collin



RT: 9.06 AI: 1034 KI: 1040 **Santolina alcohol**

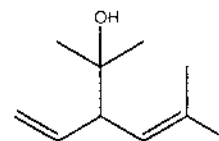
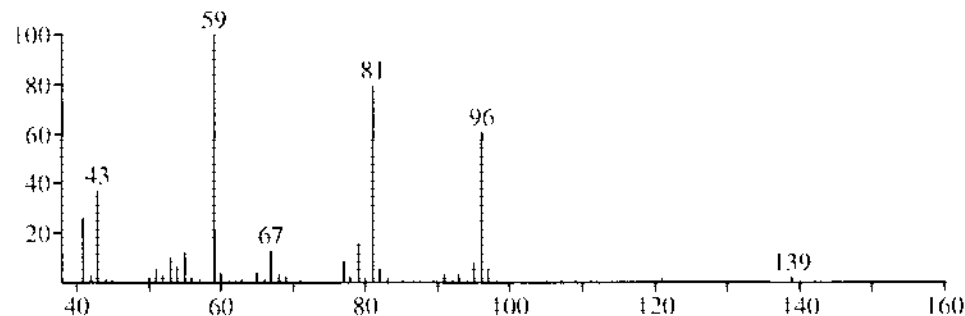
CAS#: 35671-15-9 MF: C10 H18 O FW: 154 MSD LIB#: 232

CN: 4-hexen-2-ol, 3-ethenyl-2,5-dimethyl-, (S)-

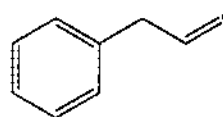
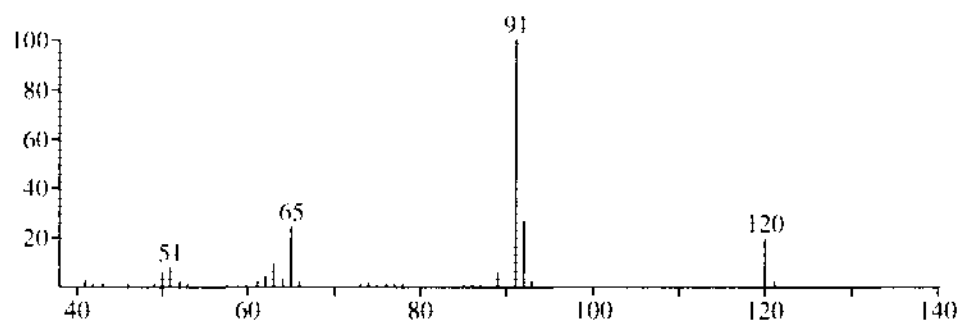
Synonyms: none

Source: *Artemisia vestita* oil ex P. Weyerstahl; 3.20% *Ormenis mixta*. Parfums Cosmet.

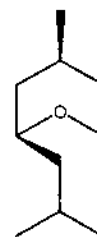
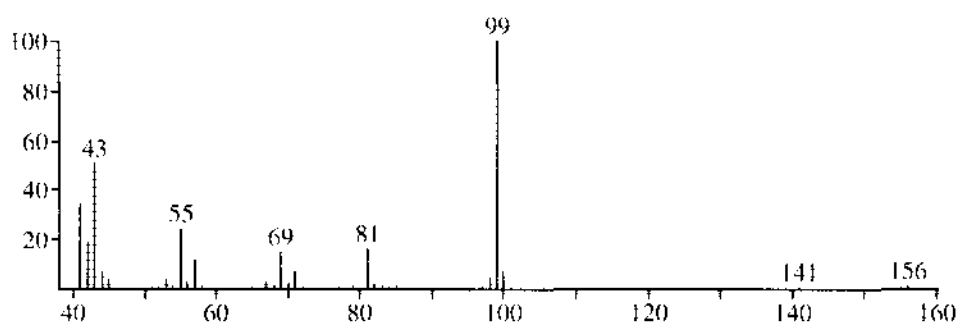
Aromes 60:65(1984); 3.14% *Artemisia vestita*; 0.20% *Artemisia judaica*



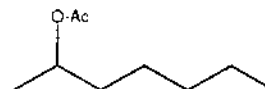
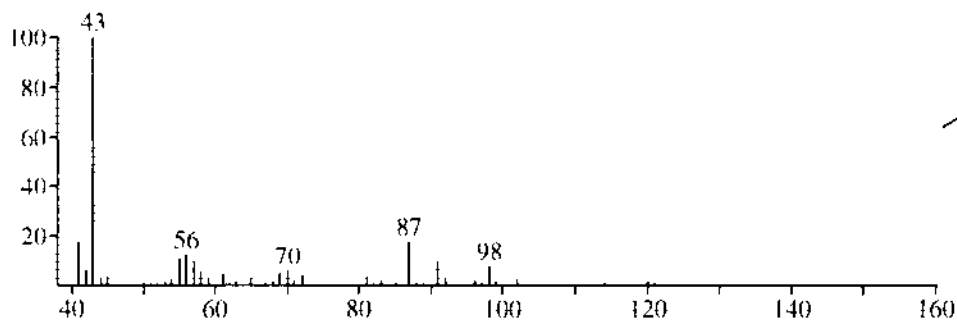
RT: 9.14 AE: 1036 KE: 1042 **Benzene acetaldehyde**
 CAS#: 122-78-1 MF: C₈H₈O FW: 120 MSD LIB#: 272
 CN: benzene acetaldehyde
 Synonyms: α -tolualdehyde; phenylethanal; phenylacetaldehyde
 Source: ref. cpd. ex J.P. Vidal, France



RT: 9.17 AE: 1037 KE: 1043 **Rose oxide <cis-dihydro->**
 CAS#: 16665-10-4 MF: C₁₀H₂₀O FW: 156 MSD LIB#: 1365
 CN: 2H-pyran, tetrahydro-4-methyl-2-(2-methylpropyl)-, (2R,4R)-
 Synonyms: none
 Source: ref. cpd. ex P. Weyerstahl



RT: 9.19 AE: 1038 KE: 1043 **Heptyl acetate <2->**
 CAS#: 5921-82-4 MF: C₉H₁₈O₂ FW: 158 MSD LIB#: 143
 CN: 2-heptanol, acetate
 Synonyms: hept-2-yl ethanoate
 Source: *Amyris diatrypa* oil, Dom. Rep. ex Tom Zanoni; 3.30% *Aframomum melegueta*,
 FII 6:183(1991); 0.10% *Zingiber officinale*; 0.06% *Ruta angustifolia*



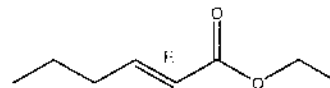
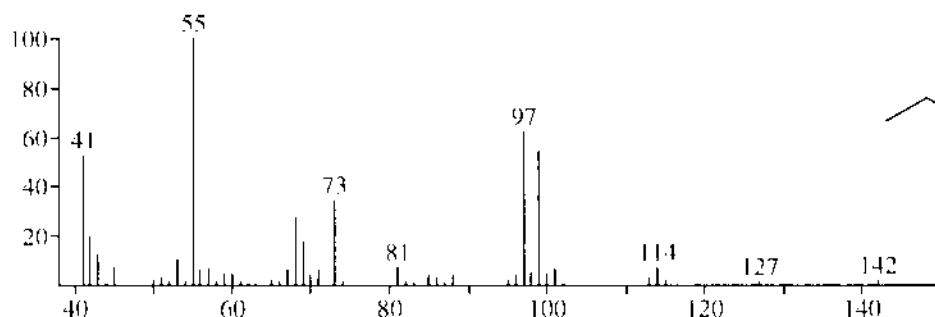
RT: 9.20 AI: 1038 KI: 1044 **Ethyl hex-(2E)-enoate**

CAS#: 27829-72-7 ME: C₈H₁₄O₂ FW: 142 MSD LIB#: 682

CN: 2-hexenoic acid, ethyl ester, (E)-

Synonyms: ethyl trans-2-hexenoate

Source: Bedoukian Res. ex Art Tucker



RT: 9.23 AI: 1039 KI: 1044 **Salicylaldehyde**

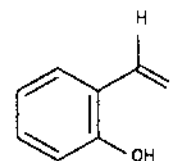
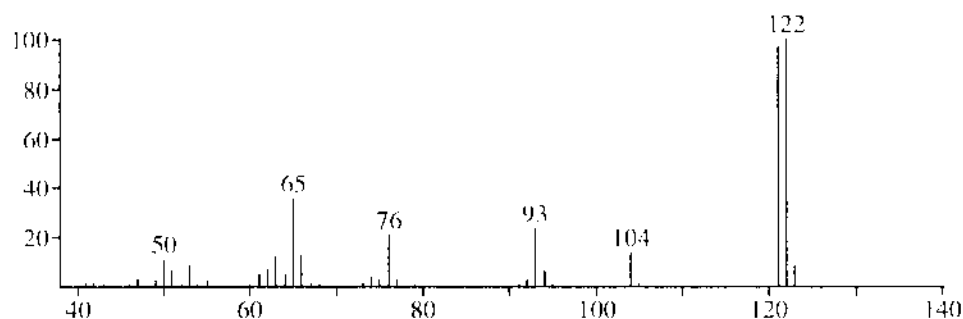
CAS#: 90-02-8 ME: C₇H₆O₂ FW: 122 MSD LIB#: 1370

CN: benzaldehyde, 2-hydroxy-

Synonyms: 2-formylphenol

Source: ref. epd. ex Keith Harkiss; 2.50% *Tagetes minuta*, Indian Perf. 19:29(1975);

1.75% *Cinnamomum cassia*; 0.48% *Cinnamomum zeylanicum*



RT: 9.33 AI: 1042 KI: 1047 **Hexalactone <γ>**

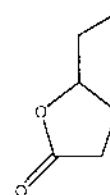
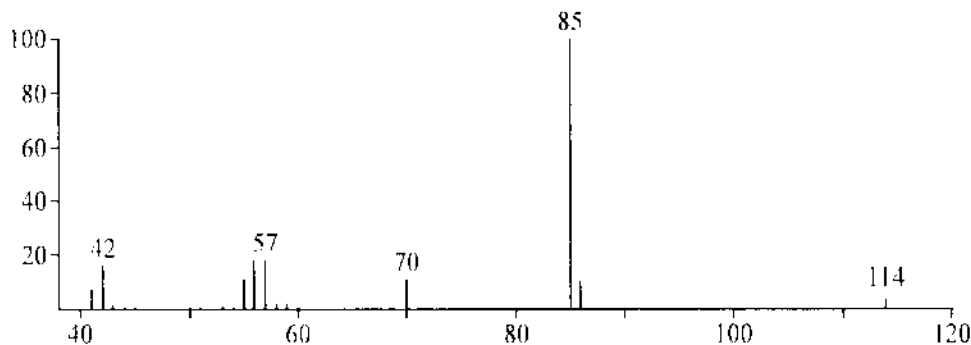
CAS#: 695-06-7 ME: C₆H₁₀O₂ FW: 114 MSD LIB#: 1977

CN: 2(3H)-furanone, 5-ethylidihydro-

Synonyms: γ-caprolactone; hexanolide-1,4; tonkalide

Source: Bedoukian Res. ex JJ Brophy; 0.23% *Zizyphus jujuba* fruit, JEOR 8:323(1996);

0.15% *Psidium guajava* fruit; 0.02% *Mandragora officinarum*



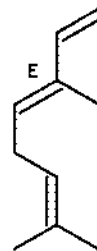
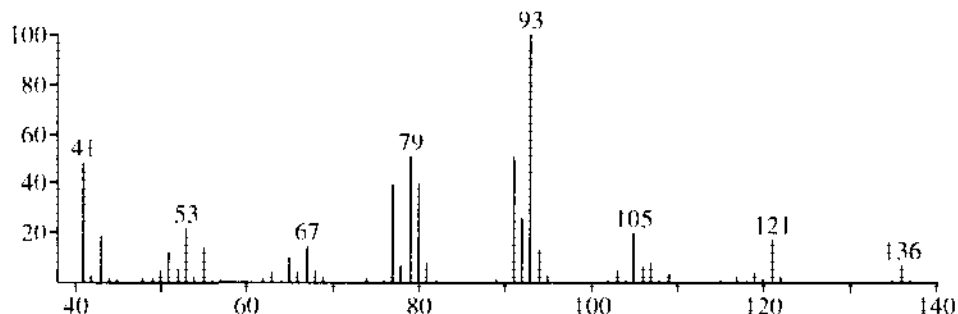
RT: 9.42 AE: 1044 KE: 1050 **Ocimene <(E)-β->**

CAS#: 3779-61-1 MF: C₁₀H₁₆ FW: 136 MSD LIB#: 894

CN: 1,3,6-octatriene, 3,7-dimethyl-, (3E)-

Synonyms: trans-ocimene

Source: *Juniperus barbadensis* leaf oil RP Adams #5400; 94.80% *Astronium fraxinifolium*, JEOR 8:177(1996); 75.00% *Narcissus pseudonarcissus*; 68.59% *Bouea macrophylla*



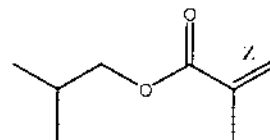
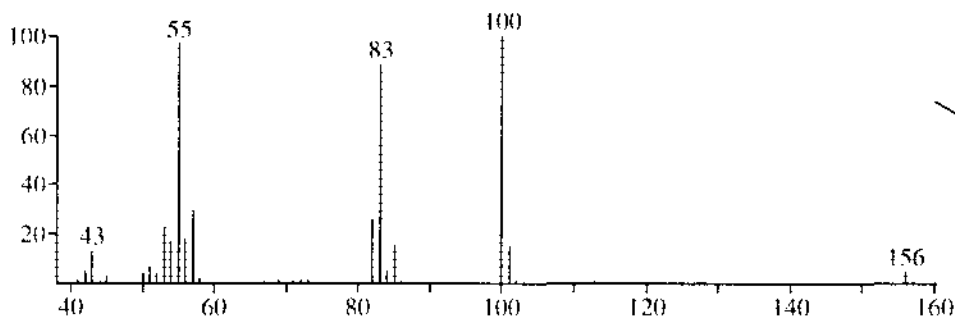
RT: 9.45 AE: 1045 KE: 1051 **Isobutyl angelate**

CAS#: 7779-81-9 MF: C₉H₁₆O₂ FW: 156 MSD LIB#: 1610

CN: 2-butenic acid, 2-methyl-, 2-methylpropyl ester (Z)-

Synonyms: angelic acid, isobutyl ester, crotonic acid, cis-2-methyl-2-butenate

Source: Aldrich Chem.: 37.41% *Anthemis nobilis* (Italy), in: Atlas of Essential Oils, Srinivas, Publ., Bronx, NY(1986); 35.92% *Anthemis nobilis* (Japan); 0.20% *Helichrysum italicum*



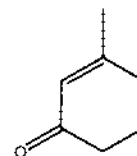
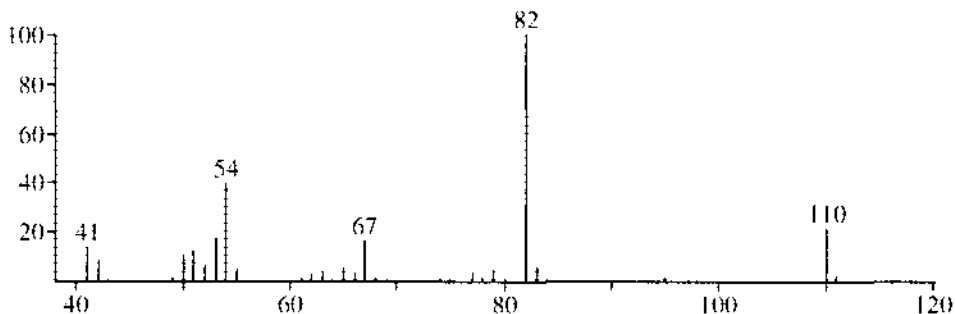
RT: 9.50 AE: 1046 KE: 1052 **Methyl-2-cyclohexen-1-one <3->**

CAS#: 1193-18-6 MF: C₇H₁₀O FW: 110 MSD LIB#: 1693

CN: 2-cyclohexen-1-one, 3-methyl-

Synonyms: pseudenone, MCH

Source: Aldrich Chem.



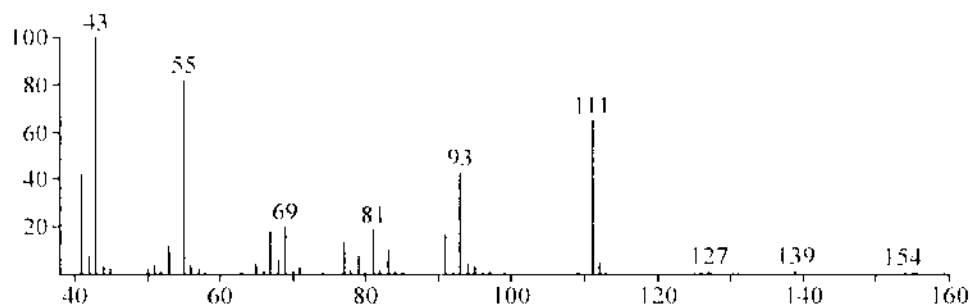
RT: 9.51 AI: 1046 KE: 1052 **Arbusculone <cis->**

CAS#: 56469-37-5 MF: C₉H₁₄O₂ FW: 154 MSD LIB#: 229

CN: ethanone, 1-(5-ethenyltetrahydro-5-methyl-2-furanyl)-, cis-

Synonyms: none

Source: *Artemisia tridentata*, SLC, UT ex RP Adams #5577



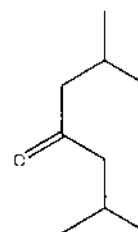
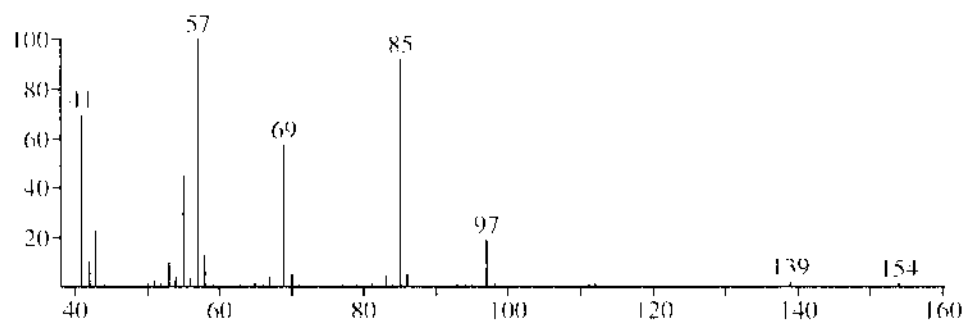
RT: 9.51 AI: 1046 KE: 1052 **Tagetone <dihydro->**

CAS#: 1879-00-1 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1458

CN: 7-octen-4-one, 2,6-dimethyl-

Synonyms: dihydrotagetone

Source: *Tagetes minuta* oil ex E. Hethelyi, Hungary



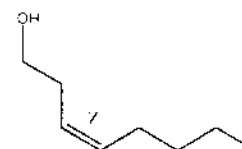
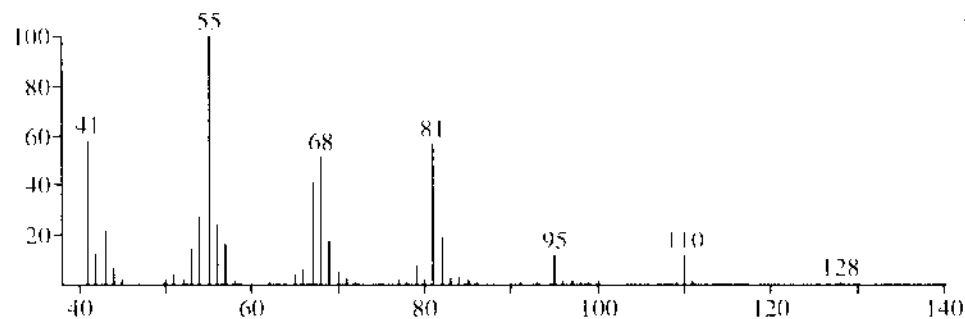
RT: 9.52 AI: 1047 KE: 1052 **Octen-1-ol <(3Z)->**

CAS#: 20125-84-2 MF: C₈H₁₆O FW: 128 MSD LIB#: 2175

CN: 3-octen-1-ol, (Z)-

Synonyms: octenol, cis-3-

Source: Bedoukian Res. ex. JJ Brophy



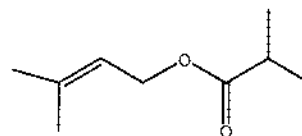
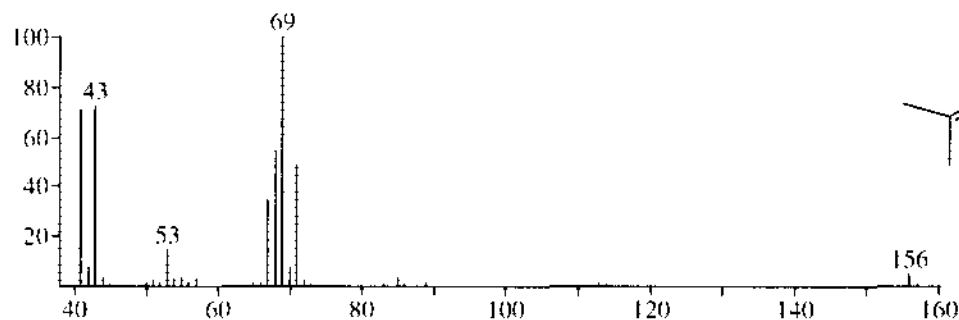
RT: 9.57 AE: 1048 KI: 1054 **Prenyl isobutyrate**

CAS#: 76649-23-5 MF: C₉H₁₆O₂ FW: 156 MSD LIB#: 1982

CN: isobutyric acid, 3-methyl-2-butenyl ester

Synonyms: none

Source: Bedoukian Res. ex JJ Brophy; 0.16% *Anthemis nobilis*, Proc. 11th Intl. Cong. of Ess. Oils, New Delhi, India, 4:207(1989)



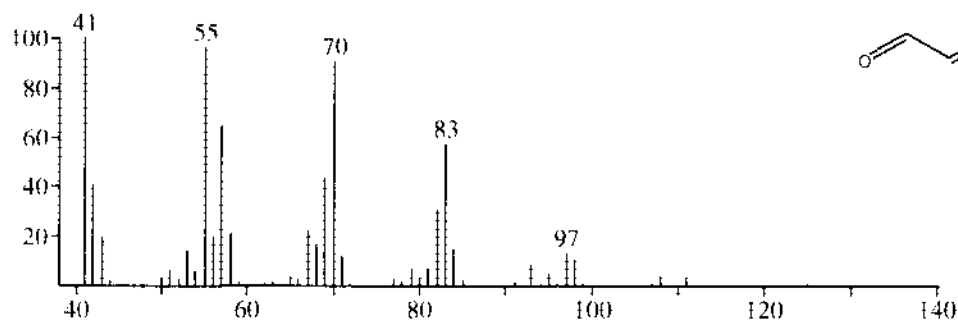
RT: 9.59 AE: 1049 KI: 1054 **Octen-1-al <(2E)->**

CAS#: 2548-87-0 MF: C₈H₁₄O FW: 126 MSD LIB#: 1938

CN: 2-octenal, (E)-

Synonyms: octenal, trans-2-

Source: Bedoukian Res. ex JJ Brophy; 0.70% *Rhus coriaria*, p. 81, in: Dragoco Bericht(1993); 0.06% *Spondias cytherea*; 0.01% *Daphne genkwa*



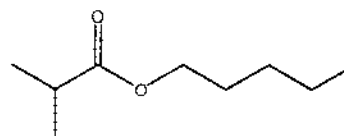
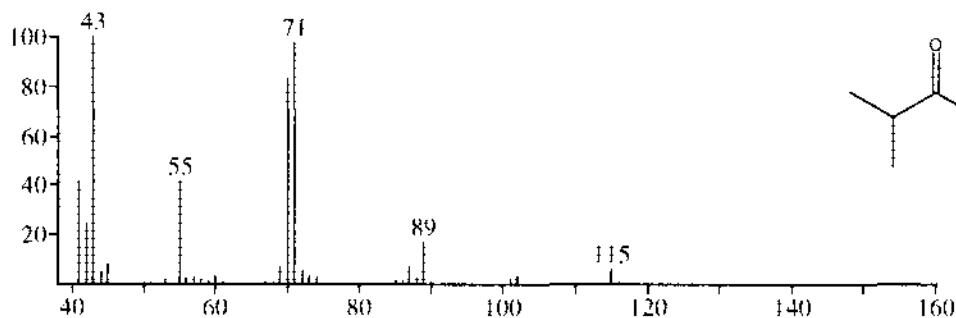
RT: 9.62 AE: 1049 KI: 1055 **Pentyl isobutanoate**

CAS#: 2445-72-9 MF: C₉H₁₈O₂ FW: 158 MSD LIB#: 311

CN: propanoic acid, 2-methyl, pentyl ester

Synonyms: amyl isobutyrate; pentyl isobutyrate

Source: artificial blackberry flavor, Lorann Oils

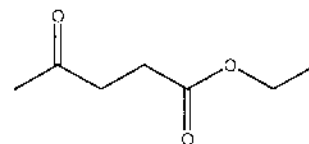
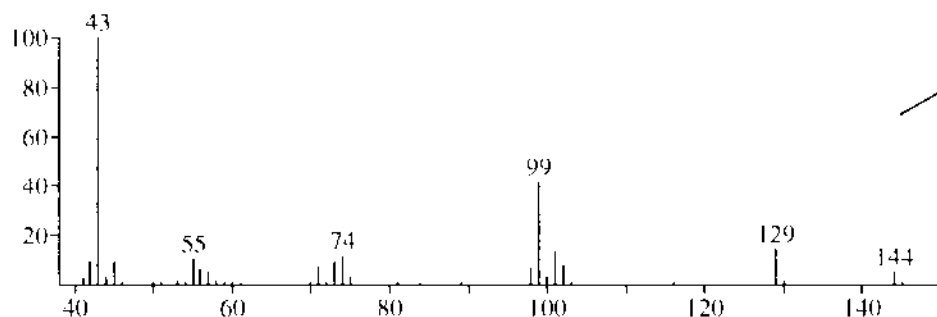


RT: 9.64 AI: 1050 KI: 1056 **Ethyl levulinate**CAS#: 539-88-8 MF: C₇H₁₂O₃ FW: 144 MSD LIB#: 2185

CN: pentanoic acid, 4-oxo-, ethyl ester

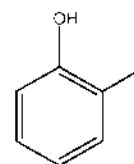
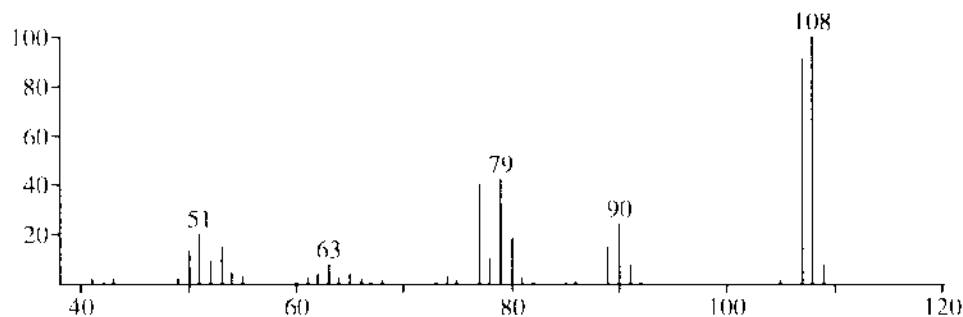
Synonyms: ethyl laevulinate; ethyl 4-oxovalerate

Source: Bedoukian Res.

RT: 9.65 AI: 1050 KI: 1056 **Cresol <o->**CAS#: 95-48-7 MF: C₇H₈O FW: 108 MSD LIB#: 1192

CN: phenol, 2-methyl-

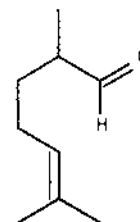
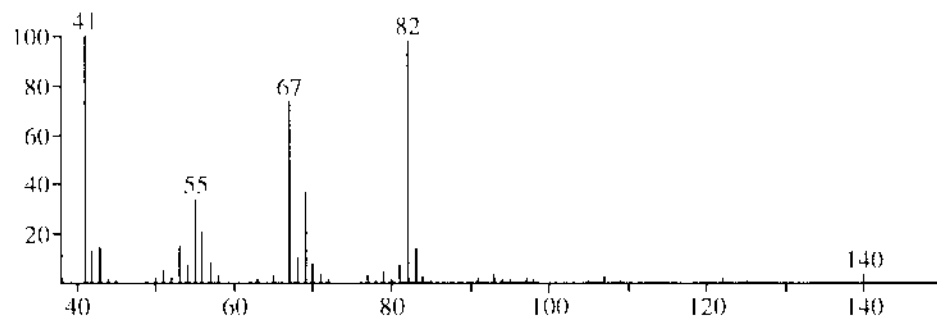
Synonyms: 2-methylphenol; 2-hydroxytoluene; o-toluidol

Source: Pfaltz & Bauer; 0.28% *Jasminum officinale*, Univ. Cairo Bull. Fac. Pharm.13:183(1974); 0.05% *Atractylodes lancea*; 0.05% *Spartium junceum* (absolute)RT: 9.67 AI: 1051 KI: 1056 **Bergamal**CAS#: 106-72-9 MF: C₉H₁₆O FW: 140 MSD LIB#: 790

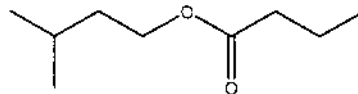
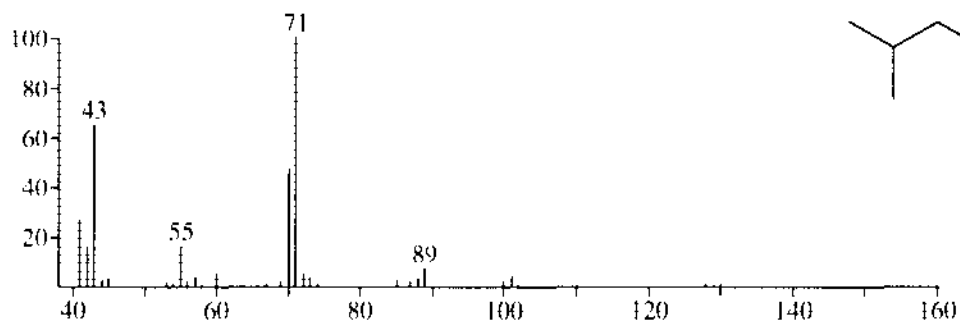
CN: 5-heptenal, 2,6-dimethyl-

Synonyms: melonal; heptenal, 2,6-dimethyl-5-

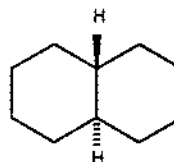
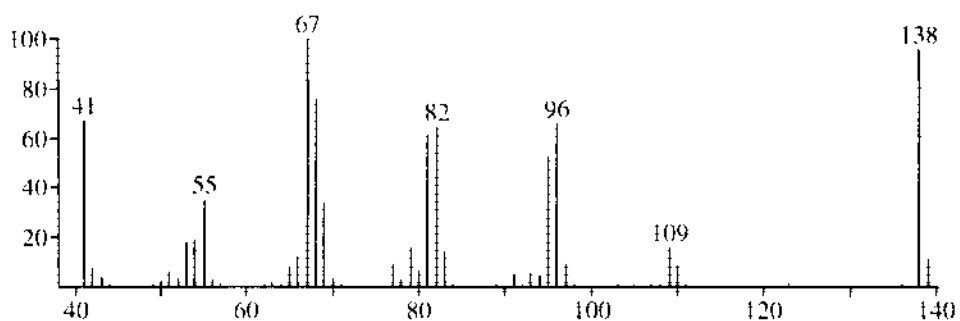
Source: ref. epd. ex E. von Rudloff



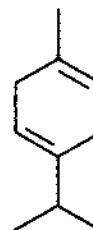
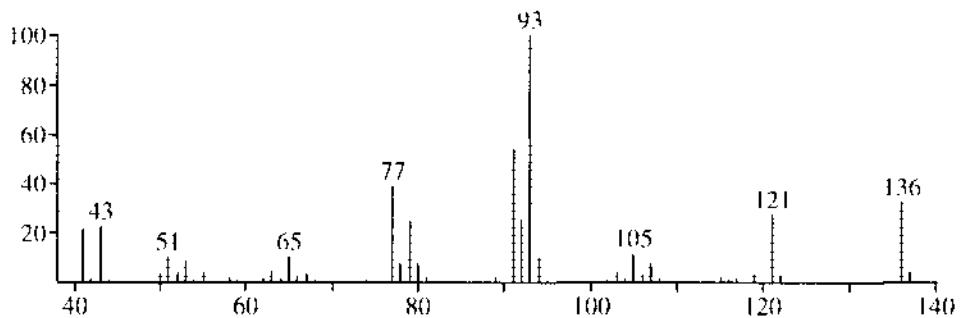
RT: 9.72 AI: 1052 KE: 1058 **Isopentyl butanoate**
 CAS#: 106-27-4 MF: C₉H₁₈O₂ FW: 158 MSD LIB#: 312
 CN: butanoic acid, 3-methylbutyl ester
 Synonyms: isoamyl n-butyrate; isopentyl butyrate
 Source: artificial blackberry flavor, Lorann Oils



RT: 9.77 AI: 1053 KE: 1059 **Naphthalene <trans-decahydro->**
 CAS#: 493-02-7 MF: C₁₀H₁₈ FW: 138 MSD LIB#: 566
 CN: naphthalene, decahydro-, trans-
 Synonyms: trans-decalin; trans-perhydronaphthalene
 Source: Aldrich Chem.



RT: 9.78 AI: 1054 KE: 1059 **Terpinene <γ->**
 CAS#: 99-85-4 MF: C₁₀H₁₆ FW: 136 MSD LIB#: 994
 CN: 1,4-cyclohexadiene, 1-methyl-4-(1-methylethyl)-
 Synonyms: crithmene; moslene; p-mentha-1,4-diene
 Source: Lemon oil, Lorann Oils; 58.50% *Satureja hortensis*, J. HRC & CC 5:182(1982);
 35.30% *Citrus unshiu*; 32.00% *Citrus medica*



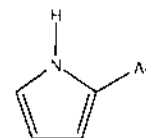
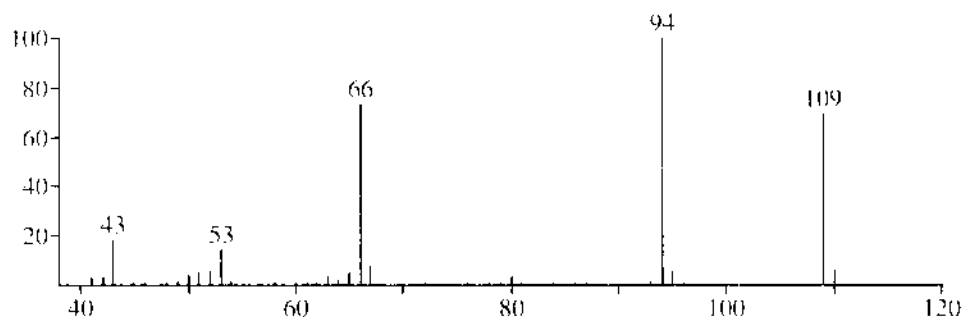
RT: 9.79 AI: 1054 KI: 1060 **Acetylpyrrole <2->**

CAS#: 1072-83-9 MF: C₆H₇N O FW: 109 MSD LIB#: 48

CN: ethanone, 1-(1H-pyrrol-2-yl)-

Synonyms: 2-pyrrolylethanone

Source: Aldrich kit #2



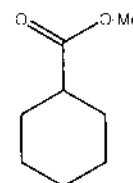
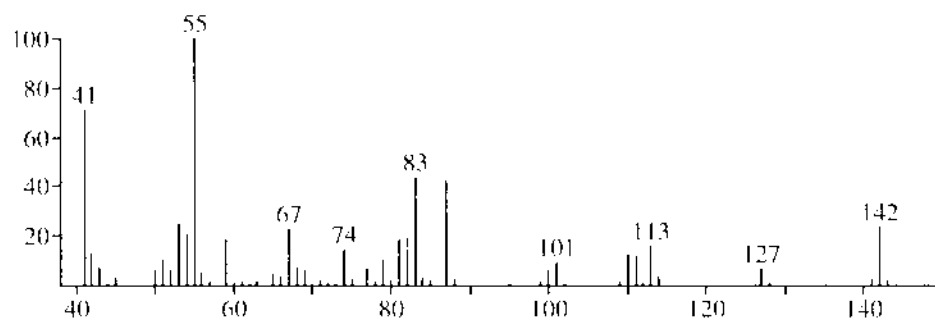
RT: 9.84 AI: 1055 KI: 1061 **Methyl cyclohexylcarboxylate**

CAS#: 4630-82-4 MF: C₈H₁₄O₂ FW: 142 MSD LIB#: 1706

CN: cyclohexanecarboxylic acid, methyl ester

Synonyms: methyl cyclohexanoate

Source: Aldrich Chem.



RT: 9.88 AI: 1056 KI: 1062 **Artemisia ketone**

CAS#: 546-49-6 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 223

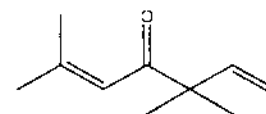
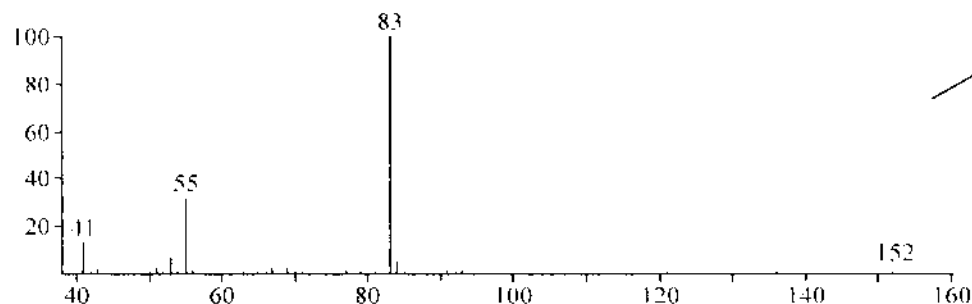
CN: 1,5-heptadien-4-one, 3,3,6-trimethyl-

Synonyms: none

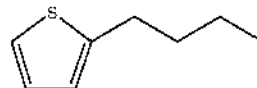
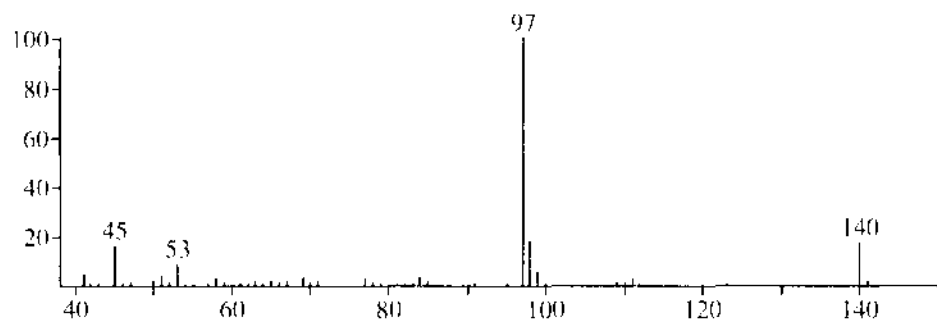
Source: *Artemisia tridentata*, SLC, UT ex RP Adams #5577; 64.00% *Artemisia annua*,

Toleva et al. paper #117, VIIIth Intl. Cong. of Ess. Oils, San Francisco (1974);

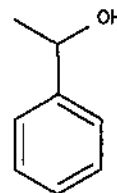
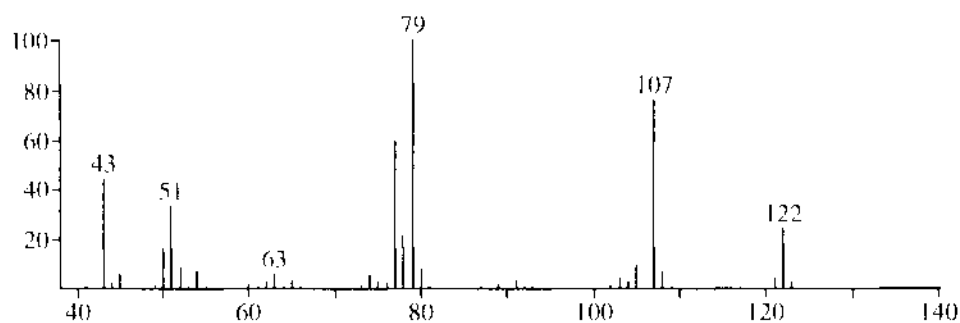
46.00% *Artemisia pontica*; 45.00% *Santolina chamaecyparissus*



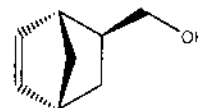
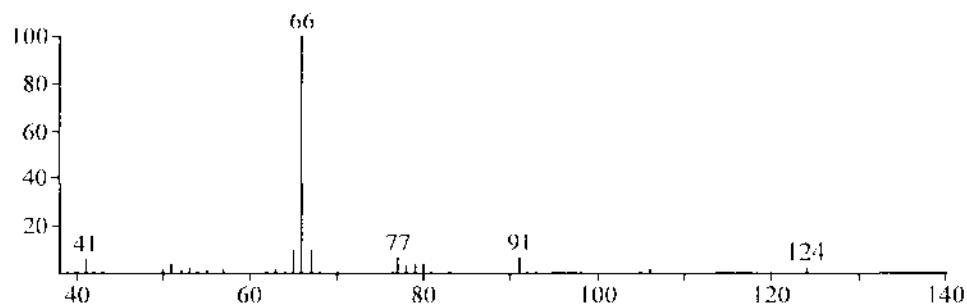
RT: 9.89 AI: 1057 KI: 1062 **Thiophene <2-butyl->**
CAS#: 1455-20-5 MF: C₈H₁₂S FW: 140 MSD LIB#: 1480
CN: thiophene, 2-butyl-
Synonyms: none
Source: ref. cpd. ex Art Tucker



RT: 9.92 AI: 1057 KI: 1063 **Benzene methanol < α -methyl->**
CAS#: 98-85-1 MF: C₈H₁₀O FW: 122 MSD LIB#: 274
CN: benzenemethanol, α -methyl-
Synonyms: α -phenethyl alcohol; phenylmethylecarbinol; styralyl alcohol
Source: Aldrich Chem. ex Art Tucker



RT: 9.95 AI: 1058 KI: 1064 **Norbornene-2-methanol <exo-5->**
CAS#: 67671-05-0 MF: C₈H₁₂O FW: 124 MSD LIB#: 1184
CN: bicyclo(2.2.1)hept-5-ene 2-methanol, (1R-exo)-
Synonyms: none
Source: ref. cpd. ex E. von Rudloff



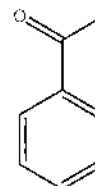
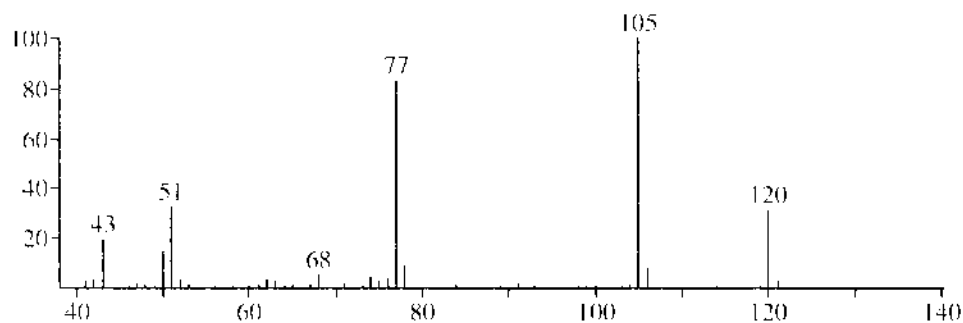
RT: 9.99 AI: 1059 KI: 1065 **Acetophenone**

CAS#: 98-86-2 MF: C₈H₈O FW: 120 MSD LIB#: 658

CN: phenylethanone

Synonyms: phenyl methyl ketone; acetylbenzene; hyponone; phenylethanone

Source: Englemann spruce leaf oil ex E. von Rudloff; 20.00% *Philadelphus coronarius*, p. 57, in: Progress in Essential Oil Research (Proc. Intern. Symp. on Ess. Oils), E. J. Brunke, Ed., Gruyter Publ., Berlin (1986); 2.40% *Trifolium pratense* (red flower); 2.20% *Cistus ladaniferus* (leaf)



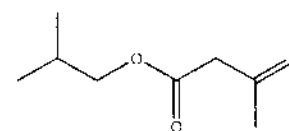
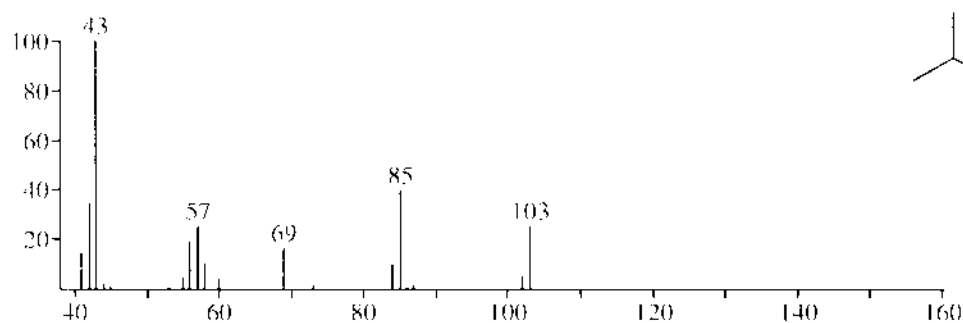
RT: 10.00 AI: 1060 KI: 1065 **Isobutyl acetoacetate**

CAS#: 7779-75-1 MF: C₈H₁₄O₃ FW: 158 MSD LIB#: 1608

CN: butanoic acid, 3-oxo-, 2-methylpropyl ester

Synonyms: none

Source: Aldrich Chem.



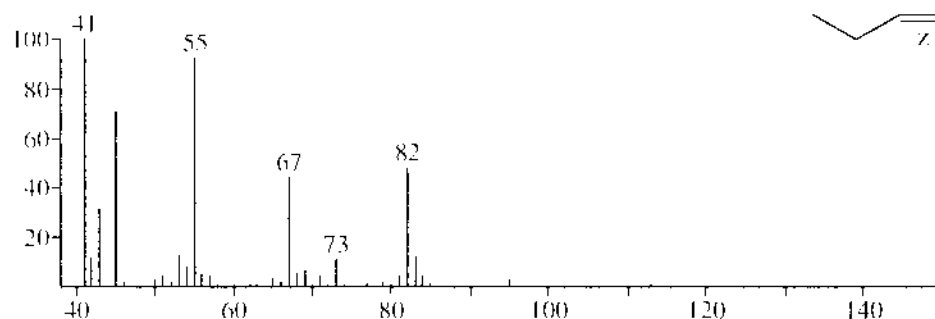
RT: 10.02 AI: 1060 KI: 1065 **Hexenyl oxy-acetaldehyde <(3Z)->**

CAS#: 68133-72-2 MF: C₈H₁₄O₂ FW: 142 MSD LIB#: 2124

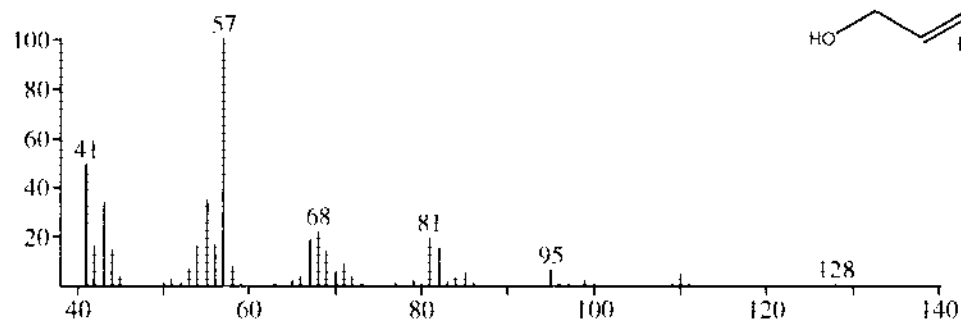
CN: acetaldehyde, ((3Z)-3-hexenyl)-oxy-

Synonyms: none

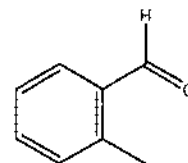
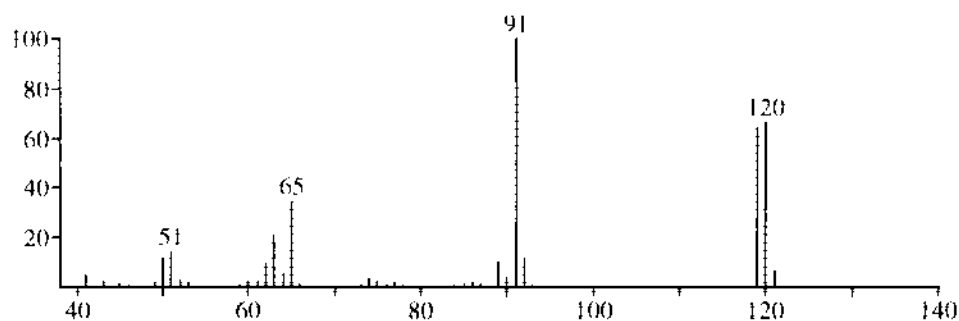
Source: Bedoukian Res.



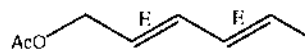
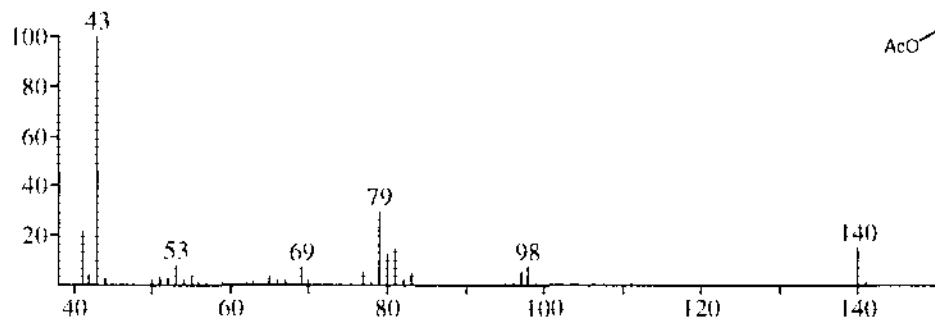
RT: 10.03 AI: 1060 KI: 1066 **Octen-1-ol <(2E)->**
 CAS#: 18409-17-1 MF: C₈H₁₆O FW: 128 MSD LIB#: 1939
 CN: 2-octen-1-ol, (E)-
 Synonyms: octenol, trans-2-
 Source: Bedoukian Res. ex JJ Brophy



RT: 10.09 AI: 1062 KI: 1067 **Tolualdehyde <o->**
 CAS#: 529-20-4 MF: C₈H₈O FW: 120 MSD LIB#: 1509
 CN: benzaldehyde, 2-methyl-
 Synonyms: 2-methylbenzaldehyde
 Source: Fluka Chem.



RT: 10.11 AI: 1063 KI: 1068 **Hexadienol acetate <(2E,4E)->**
 CAS#: 57006-69-6 MF: C₈H₁₂O₂ FW: 140 MSD LIB#: 2099
 CN: 2,4-hexadien-1-ol, acetate, (2E,4E)-
 Synonyms: sorbyl acetate
 Source: Bedoukian Res.



RT: 10.11 AI: 1063 KE: 1068 **Octanol <n->**

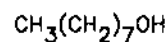
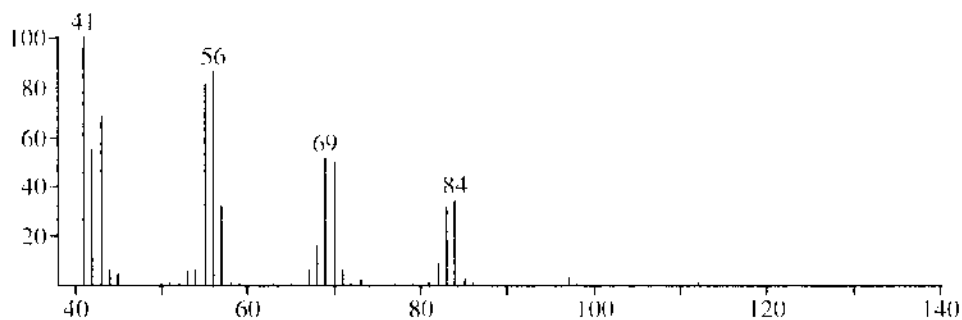
CAS#: 111-87-5 MF: C₈H₁₈O FW: 130 MSD LIB#: 34

CN: 1-octanol

Synonyms: caprylic alcohol

Source: ref. cpd. ex E. von Rudloff; 14.40% *Citrus sinensis*, Nippon Noge.

Kaishi 58:691(1984); 12.70% *Boswellia carterii*; 2.00% *Alpinia katsumadai*



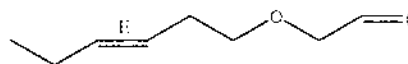
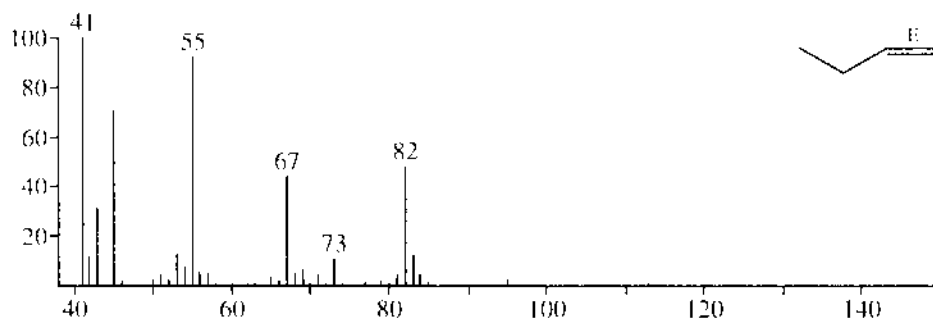
RT: 10.12 AI: 1063 KE: 1068 **Hexenyl oxy-acetaldehyde <(3E)->**

CAS#: 000-00-0 MF: C₈H₁₄O₂ FW: 142 MSD LIB#: 2125

CN: acetaldehyde, ((3E)-3-hexenyl)-

Synonyms: none

Source: Bedoukian Res.



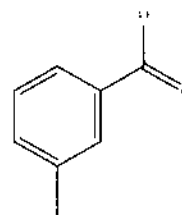
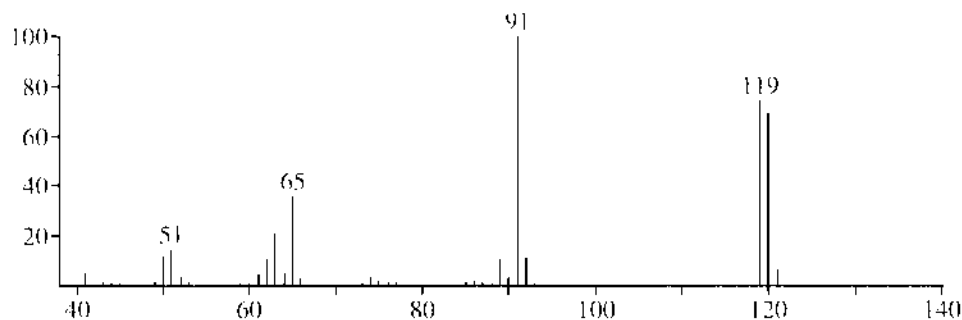
RT: 10.15 AI: 1064 KE: 1069 **Tolualdehyde <meta->**

CAS#: 620-23-5 MF: C₈H₈O FW: 120 MSD LIB#: 1508

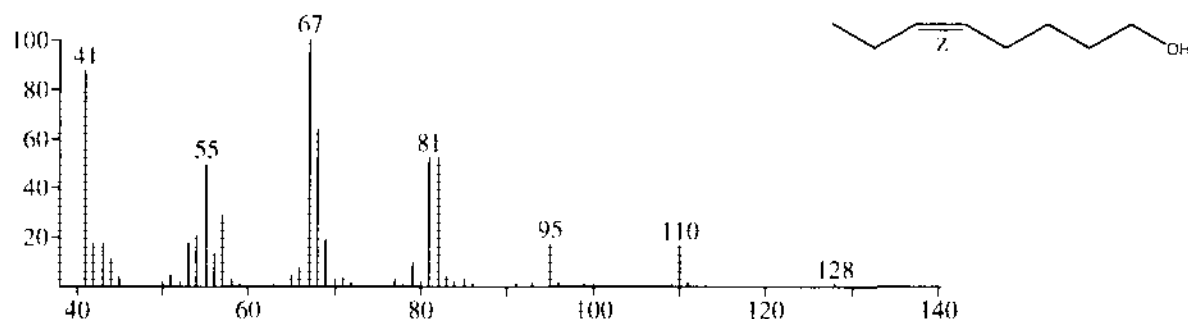
CN: benzaldehyde, 3-methyl-

Synonyms: 3-methylbenzaldehyde

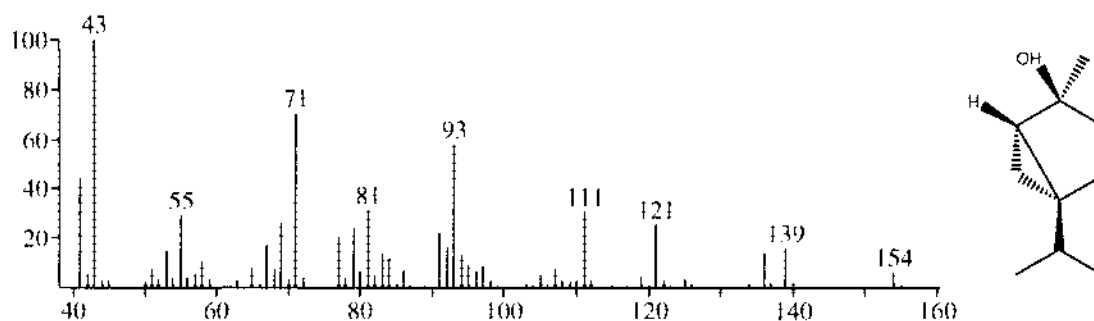
Source: Fluka Chem.



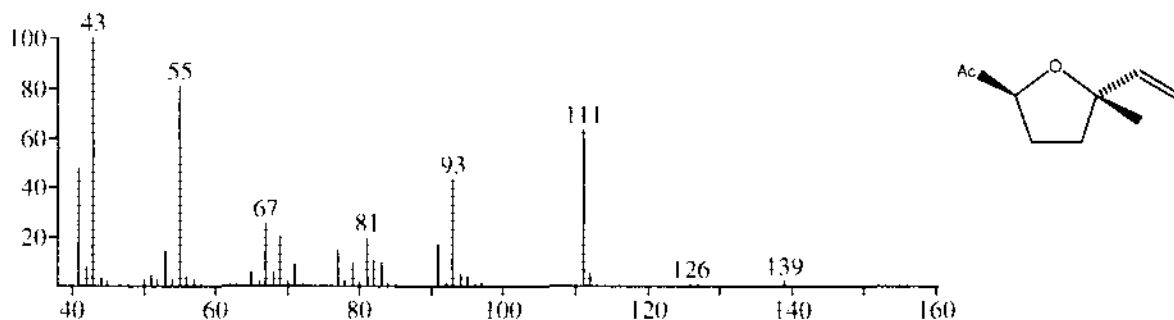
RT: 10.20 AI: 1065 KI: 1070 **Octenol <(5Z)->**
 CAS#: 64275-73-6 MF: C₈H₁₆O FW: 128 MSD LIB#: 2055
 CN: 5-octen-1-ol, (5Z)-
 Synonyms: none
 Source: Bedoukian Res.



RT: 10.20 AI: 1065 KI: 1070 **Sabinene hydrate <cis-> (IPP vs. OH)**
 CAS#: 17699-16-0 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1438
 CN: bicyclo[3.1.0]hexan-2-ol, 2-methyl-5-(1-methylethyl)-, (1α,2α,5α)-
 Synonyms: trans-4-thujanol; trans-sabinene hydrate (trans for Me vs. IPP, old name)
 Source: *Strobilanthes* oil ex P, Weyerstahl; 25.00% *Majorana hortensis*, FFI 2:55(1987);
 21.53% *Origanum rotundifolium*, 10.81% *Origanum micranthum*



RT: 10.22 AI: 1066 KI: 1070 **Arbusculone <trans->**
 CAS#: 56469-36-4 MF: C₉H₁₄O₂ FW: 154 MSD LIB#: 230
 CN: ethanone, 1-(5-ethenyltetrahydro-5-methyl-2-furanyl)-, trans-
 Synonyms: none
 Source: *Artemisia tridentata*, SLC, UT ex RP Adams #5577



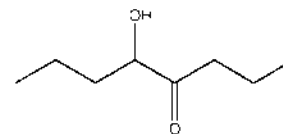
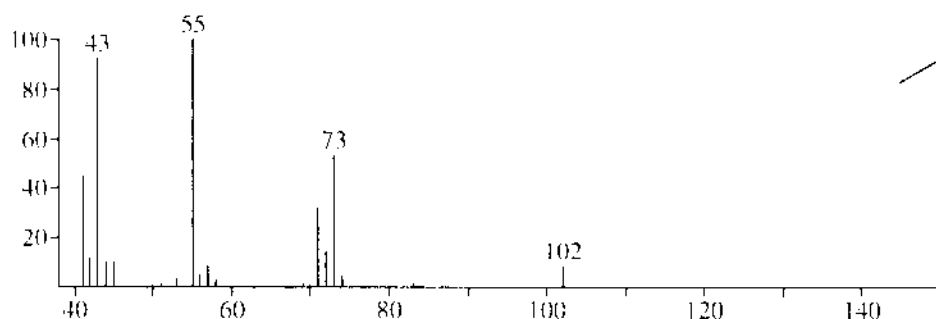
RT: 10.23 AI: 1066 KE: 1071 **Octanone <5-hydroxy-4->**

CAS#: 496-77-5 MF: C₈H₁₆O₂ FW: 144 MSD LIB#: 1597

CN: 5-hydroxy-4-octanone

Synonyms: butyrolin, 5-octanol-4-one

Source: Aldrich Chem.



RT: 10.29 AI: 1067 KE: 1072 **Linalool oxide <cis-> (furanoid)**

CAS#: 5989-33-3 MF: C₁₀H₁₈O₂ FW: 170 MSD LIB#: 988

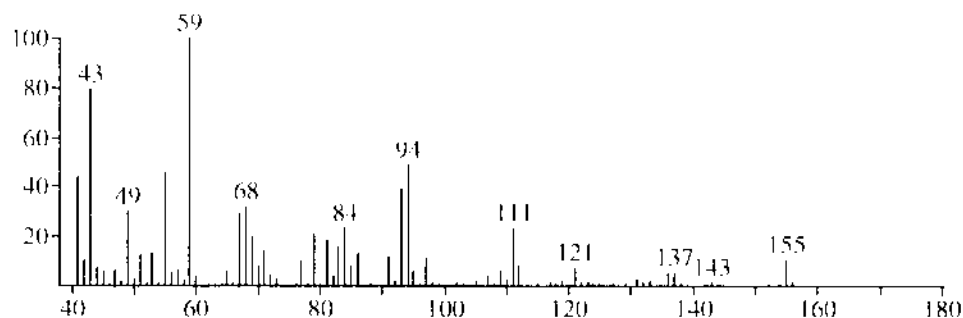
CN: 2-furamethanol, 5-ethenyltetrahydro $\alpha,\alpha,5$ -trimethyl-, cis-

Synonyms: linalool oxide B

Source: Lavender oil ex Firmenich ex AF Thomas; 17.17% *Magnolia purpurella*, p. 204,

in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong(1993);

14.60% *Osmanthus fragrans*; 11.50% *Cinnamomum camphora*



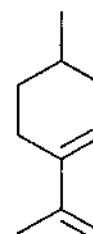
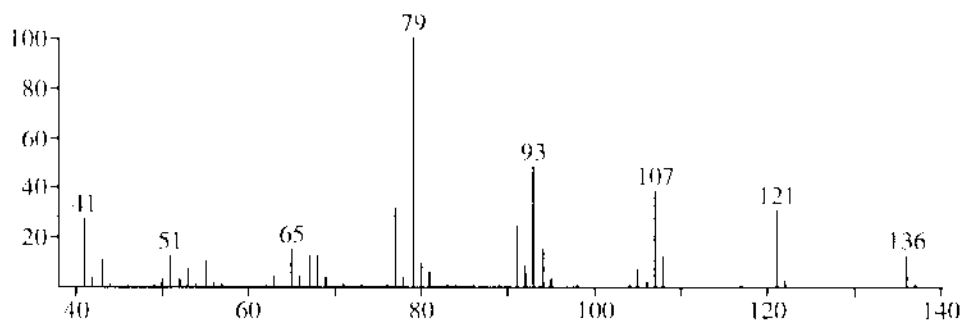
RT: 10.30 AI: 1068 KE: 1072 **Mentha-3,8-diene <p->**

CAS#: 586-67-4 MF: C₁₀H₁₆ FW: 136 MSD LIB#: 587

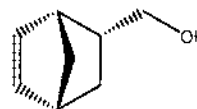
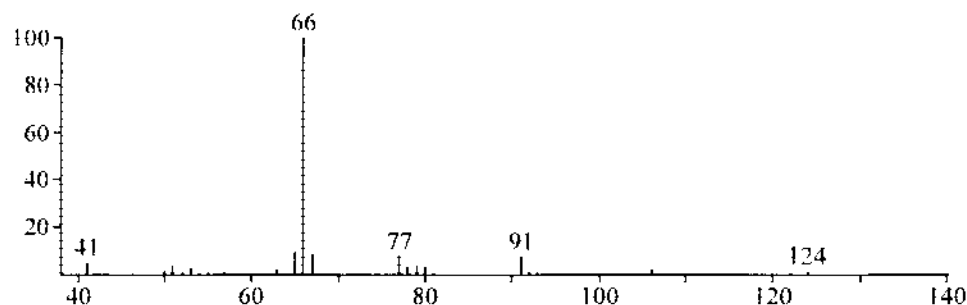
CN: cyclohexene, 4-methyl-1-(1-methylethenyl)-

Synonyms: p-mentha-3,8-diene

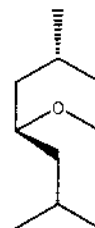
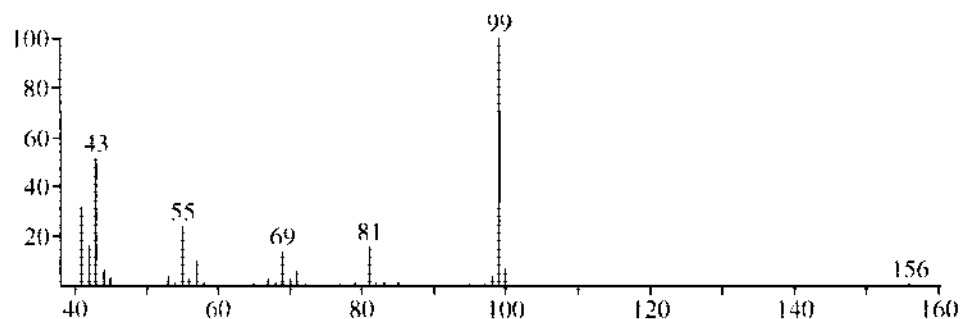
Source: *Dicerandra frutescens* oil ex Mark Deyrup, FL



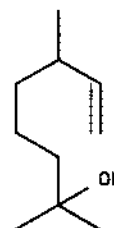
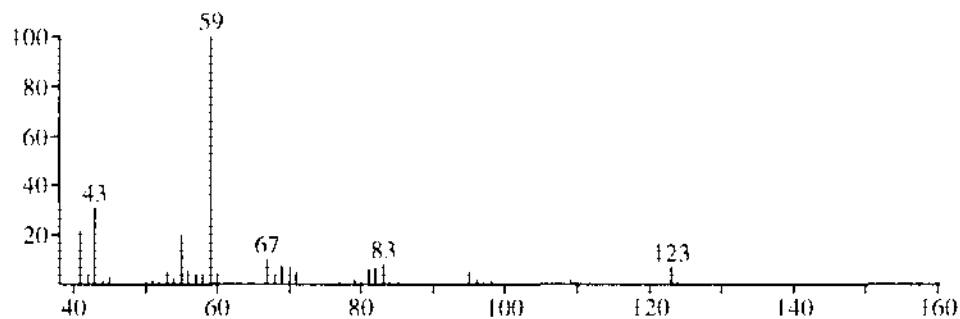
RT: 10.30 AI: 1068 KI: 1072 **Norbornene-2-methanol <endo-5->**
 CAS#: 67671-06-1 MF: C₈H₁₂O FW: 124 MSD LIB#: 1185
 CN: bicyclo(2.2.1)hept-5-ene-2-methanol, (1R-endo)-
 Synonyms: none
 Source: ref. cpd. ex P. Weyerstahl



RT: 10.31 AI: 1068 KI: 1073 **Rose oxide <trans-dihydro->**
 CAS#: 140238-79-5 MF: C₁₀H₂₀O FW: 156 MSD LIB#: 1366
 CN: 2H-pyran, tetrahydro-4-methyl-2-(2-methylpropyl)-, (2S,4R)-
 Synonyms: none
 Source: HFF ex Jian-Qin Cu. Kunming



RT: 10.35 AI: 1069 KI: 1074 **Dihydro myrcenol**
 CAS#: 18479-58-8 MF: C₁₀H₂₀O FW: 156 MSD LIB#: 606
 CN: 7-octen-2-ol, 2,6-dimethyl-
 Synonyms: none
 Source: HFF ex Jian-Qin Cu. Kunming



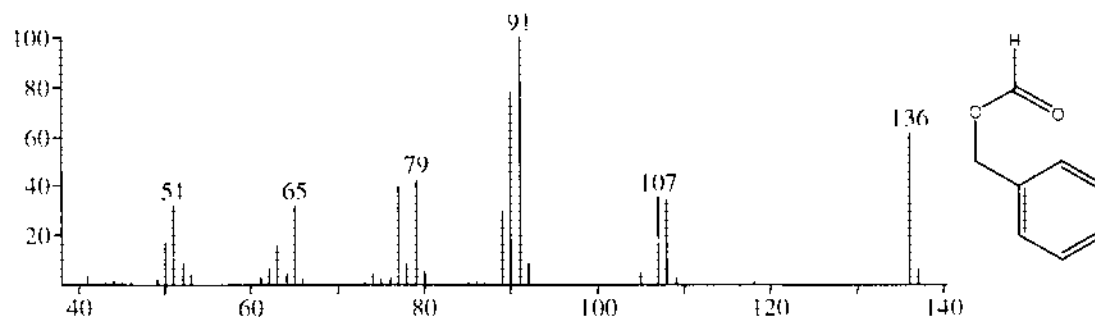
RT: 10.43 AI: 1071 KE: 1076 **Benzyl formate**

CAS#: 104-57-4 MF: C₈H₈O₂ FW: 136 MSD LIB#: 290

CN: formic acid, phenylmethyl ester

Synonyms: benzyl methanoate

Source: K & K ex H. Hills: 1.20% *Acacia praecox* (flower), FFJ 11:3(1996);
0.18% *Ocimum basilicum*; 0.11% *Michelia alba* (flower)



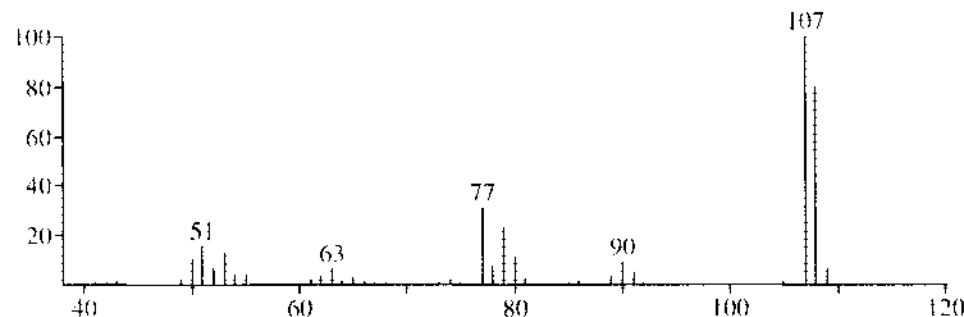
RT: 10.43 AI: 1071 KE: 1076 **Cresol <p>**

CAS#: 106-44-5 MF: C₇H₈O FW: 108 MSD LIB#: 1230

CN: phenol, 4-methyl-

Synonyms: p-oxytoluene; p-tolulol

Source: Jasmin absolute ex Firmenich ex AF Thomas: 21.60% *Jasminum polyanthum*, Dragoco
Report 1/1996, 5-21; 3.76% *Jasminum officinale* (absolute); 2.86% *Jasminum officinale* (headspace)



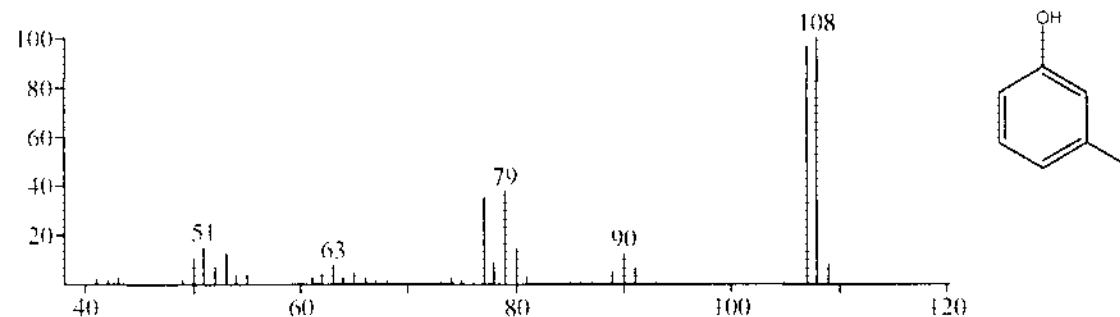
RT: 10.45 AI: 1072 KE: 1076 **Cresol <meta>**

CAS#: 108-39-4 MF: C₇H₈O FW: 108 MSD LIB#: 1042

CN: phenol, 3-methyl-

Synonyms: m-methylphenol; m-oxytoluene; 3-hydroxytoluene; m-tolulol

Source: Fisher Sci.: 2.33% *Jasminum sambac*, FFJ 11:57(1996); 2.01% *Narcissus tazetta*;
0.45% *Narcissus jonquilla*



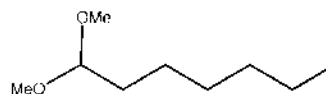
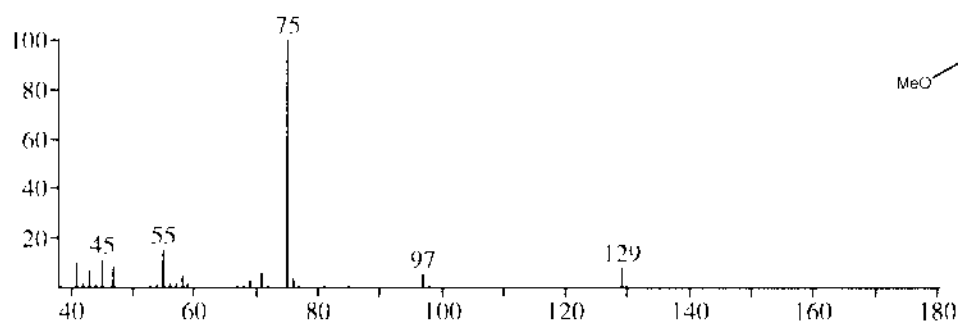
RT: 10.52 AI: 1074 KE: 1078 **Heptanal, dimethyl acetal**

CAS#: 10032-05-0 MF: C₉H₂₀O₂ FW: 160 MSD LIB#: 2113

CN: heptane, 1,1-dimethoxy-

Synonyms: none

Source: Bedoukian Res.



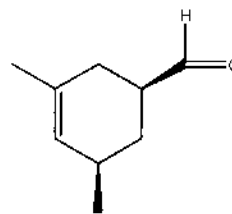
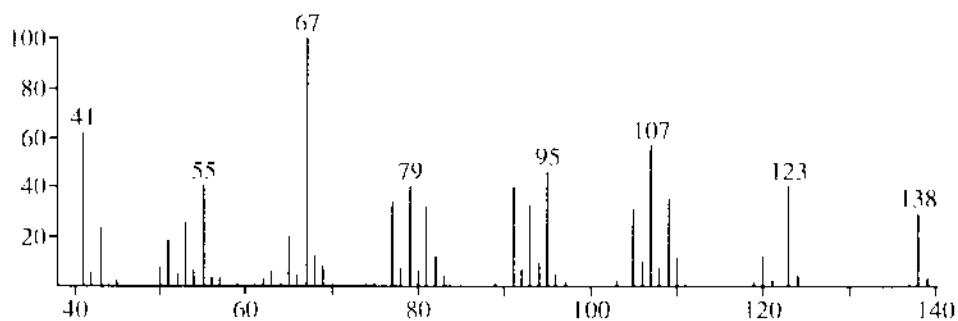
RT: 10.61 AI: 1076 KE: 1080 **Vertocitral C <cis->**

CAS#: 65405-78-9 MF: C₉H₁₄O FW: 138 MSD LIB#: 1552

CN: 3-cyclohexene-1-carboxaldehyde, 3,5 dimethyl-, cis-

Synonyms: dimethyl cyclohexene carboxaldehyde

Source: H & R Chem. ex Jian-Qin Cu, Kunming



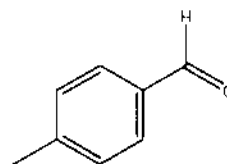
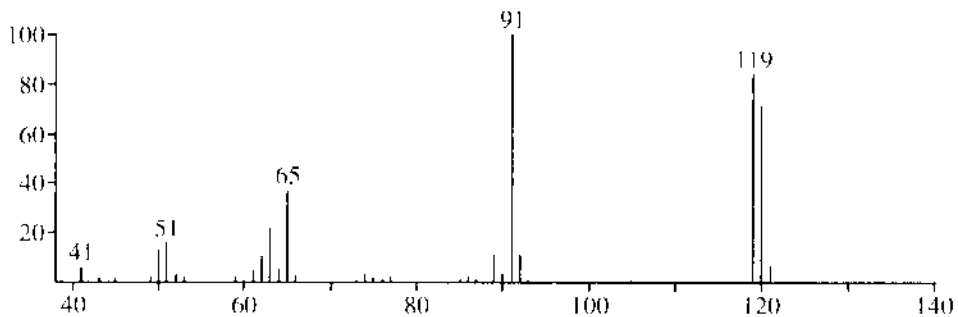
RT: 10.66 AI: 1077 KE: 1081 **Tolualdehyde <p->**

CAS#: 104-87-0 MF: C₈H₈O FW: 120 MSD LIB#: 1510

CN: benzaldehyde, 4-methyl-

Synonyms: 4-methylbenzaldehyde

Source: Fluka Chem.



RT: 10.70 AI: 1078 KI: 1082 **Camphenilone**

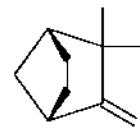
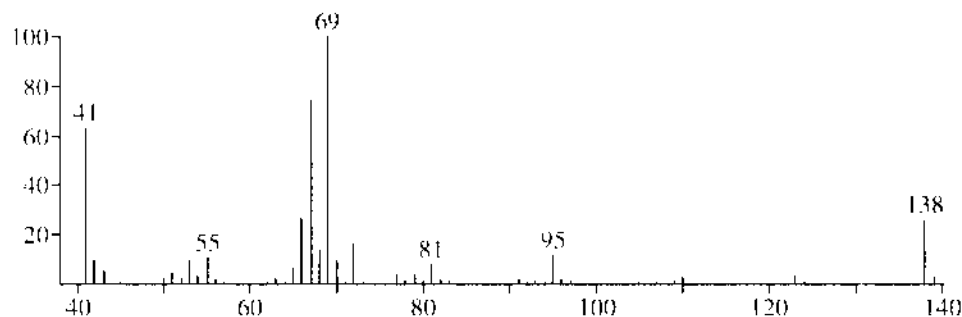
CAS#: 13211-15-9 MF: C₉H₁₄O FW: 138 MSD LIB#: 820

CN: bicyclo(2.2.1)heptan-2-one, 3,3-dimethyl-

Synonyms: 2-norbornanone, 3,3-dimethyl-

Source: Spruce leaf oil ex E. von Rudloff and L. Hogge; 0.11% *Micromeria carminea*.

JEOR 7:457(1995); 0.10% *Artemisia alba*; 0.07% *Citronella ceylon*



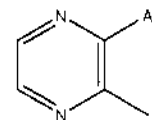
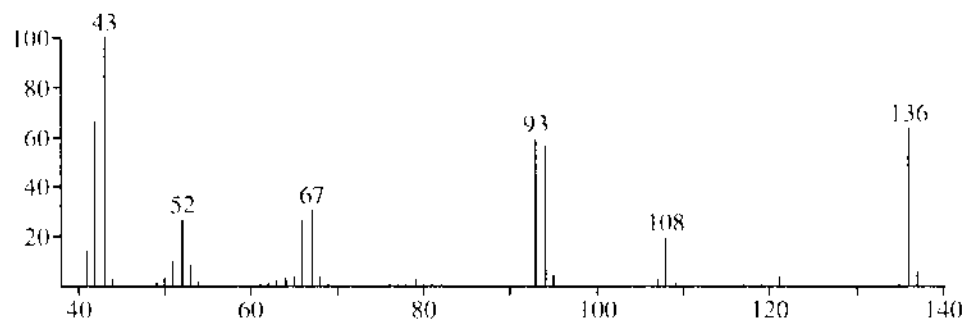
RT: 10.71 AI: 1079 KI: 1082 **Pyrazine <2-acetyl-3-methyl->**

CAS#: 23787-80-6 MF: C₇H₈N₂O FW: 136 MSD LIB#: 1352

CN: ethanone, 1-(3-methylpyrazinyl)-

Synonyms: none

Source: Pyrazine specialties ex Art Tucker



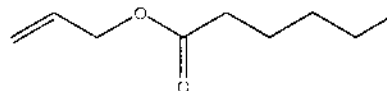
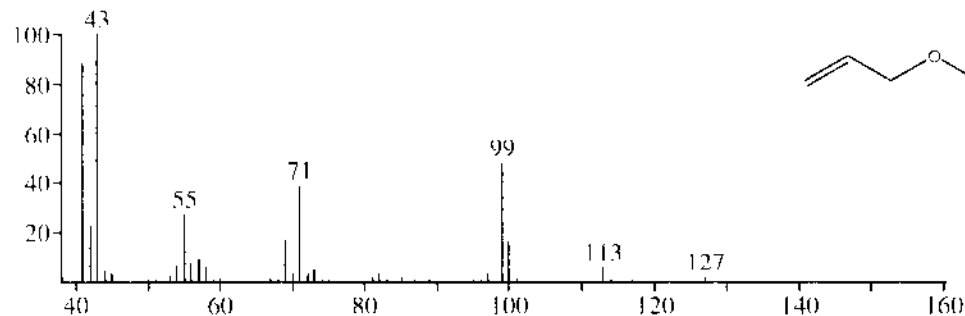
RT: 10.72 AI: 1079 KI: 1082 **Allyl hexanoate**

CAS#: 123-68-2 MF: C₉H₁₆O₂ FW: 156 MSD LIB#: 111

CN: hexanoic acid, 2-propenyl ester

Synonyms: allyl caproate

Source: H&R ex Jian-Qin Cui, Kunming



RT: 10.76 AI: 1080 KI: 1083 **Artemisia alcohol**

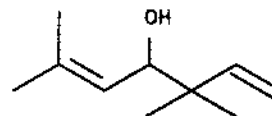
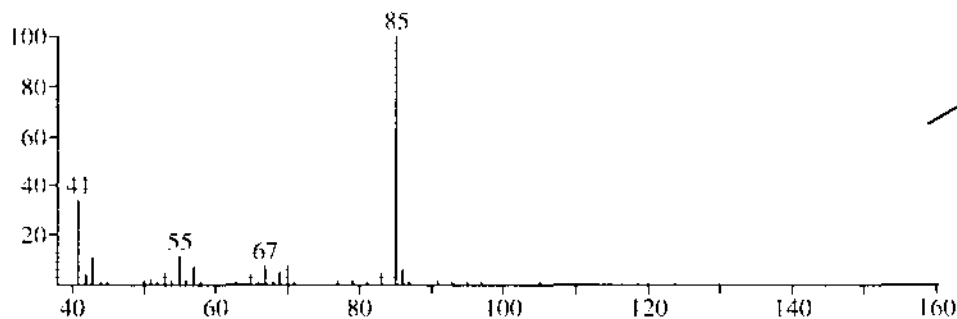
CAS#: 57590-19-9 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 224

CN: 1,5-heptadien-4-ol, 3,3,6-trimethyl-

Synonyms: none

Source: *Artemisia tridentata*, SLC, UT ex RP Adams #5577; 24.00% *Artemisia annua* (Hungary),

JEOR 7:45(1995); 7.50% *Artemisia judaica*



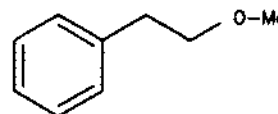
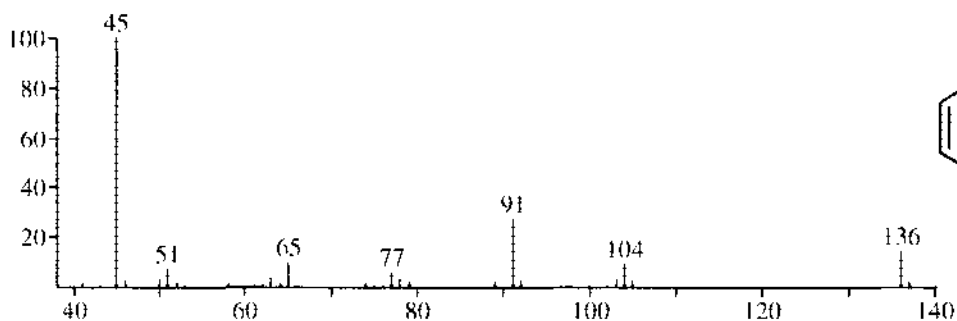
RT: 10.76 AI: 1080 KI: 1083 **Benzene <2-methoxyethyl->**

CAS#: 3558-60-9 MF: C₉H₁₂O FW: 136 MSD LIB#: 276

CN: benzene, (2-methoxyethyl)-

Synonyms: pandanol, methyl phenyl ethyl ether

Source: ref. cpd. ex Jian-Qin Cu, Kunming



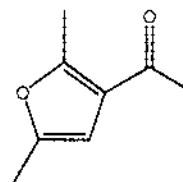
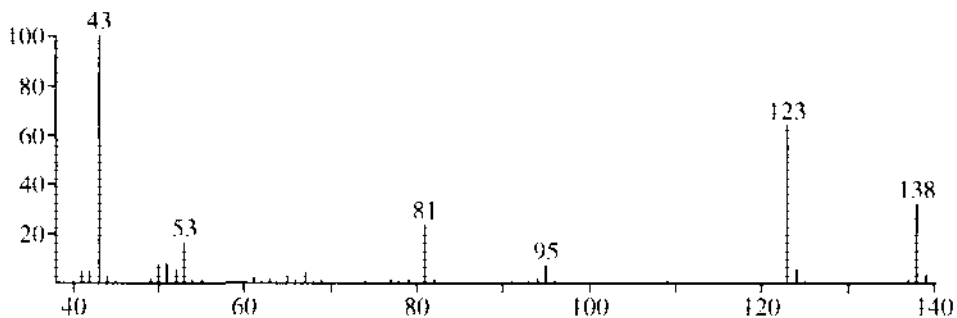
RT: 10.78 AI: 1081 KI: 1084 **Acetyl-2,5-dimethyl furan <3->**

CAS#: 10599-70-9 MF: C₈H₁₀O₂ FW: 138 MSD LIB#: 12

CN: acetyl-2,5-dimethyl furan <3->

Synonyms: none

Source: Aldrich Chem.



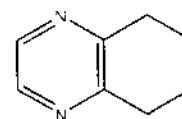
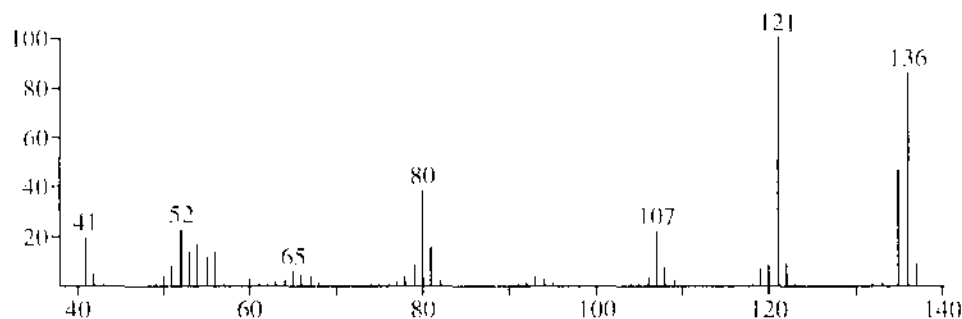
RT: 10.79 AI: 1081 KI: 1084 **Pyrazine <2,3-diethyl->**

CAS#: 15707-24-1 MF: C₈H₁₂N₂ FW: 136 MSD LIB#: 53

CN: pyrazine, 2,3-diethyl-

Synonyms: none

Source: Aldrich Chem.



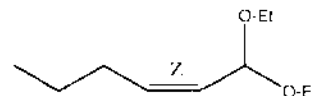
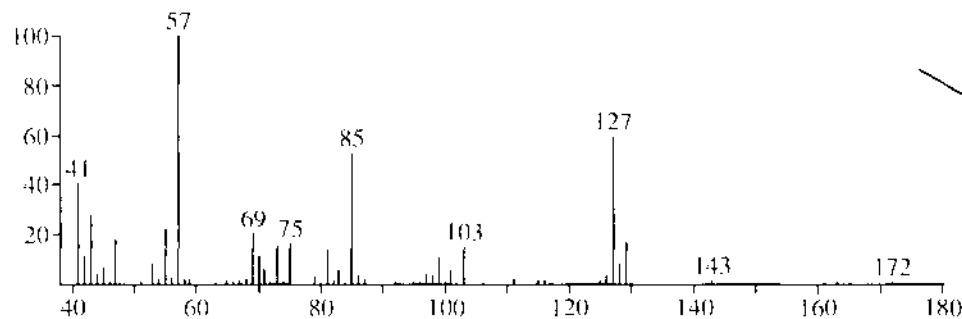
RT: 10.80 AI: 1081 KI: 1084 **Hexenal <(2Z)->, diethyl acetal**

CAS#: 87383-46-8 MF: C₁₀H₂₀O₂ FW: 172 MSD LIB#: 804

CN: 2-hexene, 1,1-diethoxy, (Z)-

Synonyms: 1,1-diethoxy-2Z-hexene

Source: Bedoukian Res. ex Art Tucker



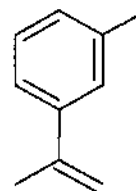
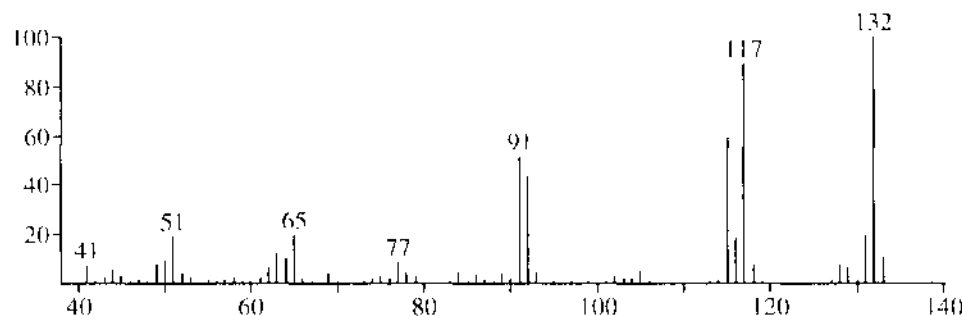
RT: 10.82 AI: 1082 KI: 1085 **Cymene <meta->**

CAS#: 1124-20-5 MF: C₁₀H₁₂ FW: 132 MSD LIB#: 426

CN: benzene, 1-methyl-3-(1-methylethenyl)

Synonyms: α -3-dimethylstyrene; 2-m-tolylpropene; m-isopropenyltoluene

Source: *Chamaecyparis nootkatensis* leaf oil ex E. von Rudloff; Identification by R. Laurent, Robertet, France



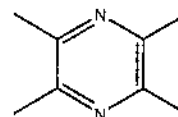
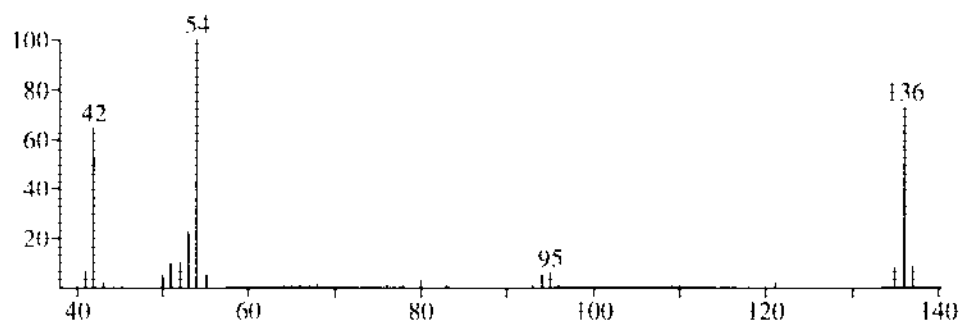
RT: 10.86 AI: 1083 KI: 1086 **Pyrazine <tetramethyl->**

CAS#: 1124-11-4 MF: C₈H₁₂N₂ FW: 136 MSD LIB#: 69

CN: pyrazine, tetramethyl-

Synonyms: ligustrazine

Source: Aldrich Chem.



RT: 10.88 AI: 1083 KI: 1086 **Fenchone**

CAS#: 1195-79-5 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 162

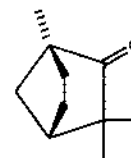
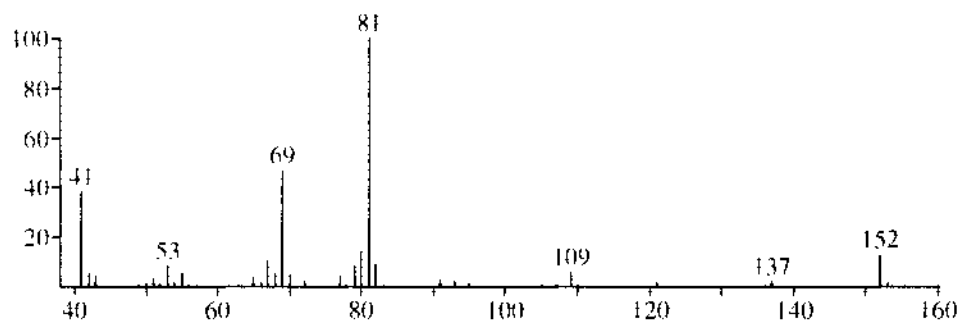
CN: bicyclo(2.2.1)heptan-2-one, 1,3,3-trimethyl-

Synonyms: 2-norbornanone, 1,3,3-trimethyl-; 1,3,3-trimethylnorcamphor

Source: Sweet Anis leaves (*Foeniculum vulgare*) distilled, RP Adams #5452:

42.10% *Lavandula stoechas*, 11th Intl. Cong. of Ess. Oils, Frag. & Flav., New Delhi,

India 4:15(1989); 25.10% *Alpinia katsumadai* (stem); 24.30% *Foeniculum vulgare*



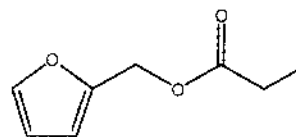
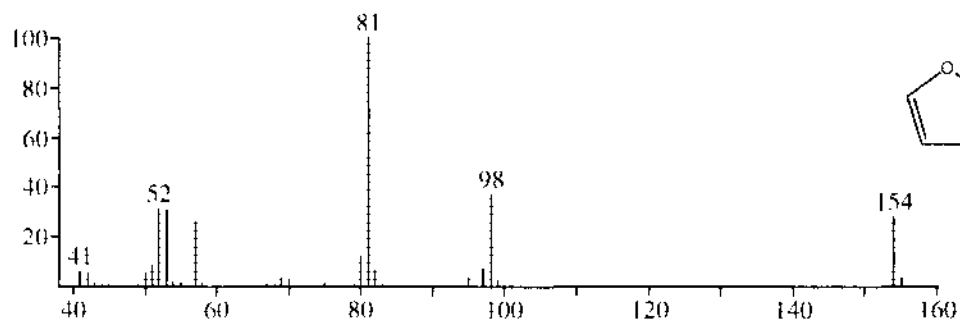
RT: 10.88 AI: 1083 KI: 1086 **Furfuryl propionate**

CAS#: 623-19-8 MF: C₈H₁₀O₃ FW: 154 MSD LIB#: 81

CN: 2-furannmethanol, propanoate

Synonyms: furfuryl alcohol, propionate

Source: Aldrich Chem.



RT: 10.89 AI: 1084 KI: 1086 **Linalool oxide <trans> (furanoid)**

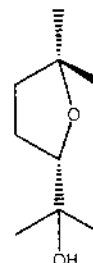
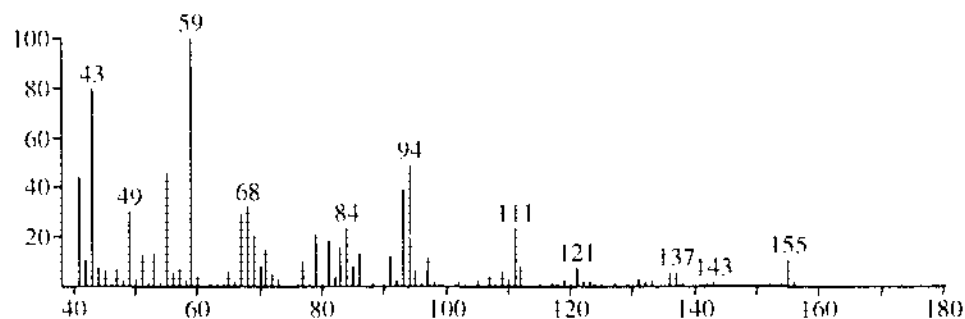
CAS#: 34995-77-2 MF: C₁₀H₁₈O₂ FW: 170 MSD LIB#: 989

CN: 2-furanmethanol, 5-ethenyltetrahydro- $\alpha,\alpha,5$ -trimethyl-,trans-

Synonyms: linalool oxide A

Source: Lavender oil ex Firmenich ex AF Thomas; 21.10% *Osmanthus fragrans*.

Rastit. Resur. 22:243(1986); 10.80% *Cinnamomum camphora*; 7.89% *Magnolia purpurella*



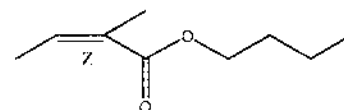
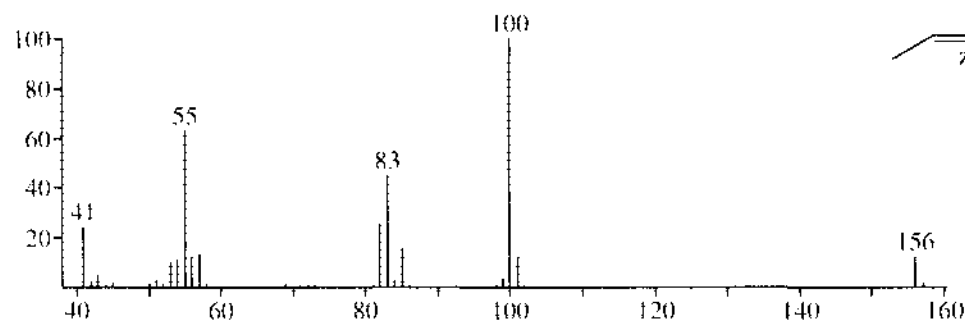
RT: 10.94 AI: 1085 KI: 1088 **Butyl angelate**

CAS#: 7785-64-0 MF: C₉H₁₆O₂ FW: 156 MSD LIB#: 1992

CN: 2-butenic acid, 2-methyl-, butyl ester (Z)-

Synonyms: none

Source: Bedoukian Res. ex J.J. Brophy; 34.90% *Anthemis nobilis*, Planta med. 57:237(1991)



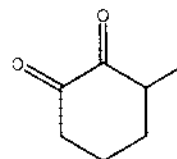
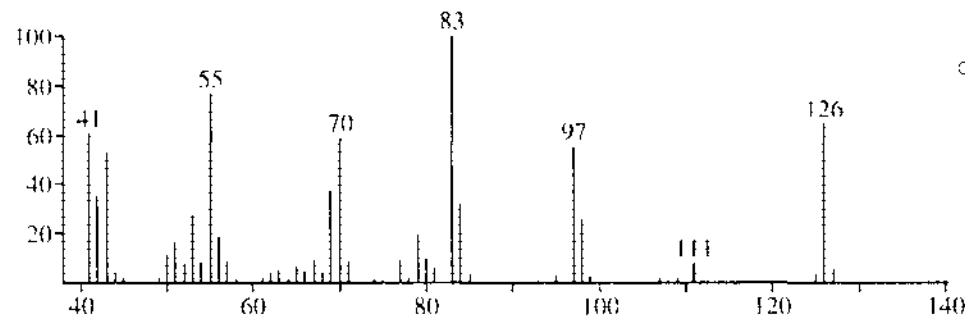
RT: 10.94 AI: 1085 KI: 1088 **Cyclohexanedione <3-methyl-1,2>**

CAS#: 3008-43-3 MF: C₇H₁₀O₂ FW: 126 MSD LIB#: 1687

CN: 1,2-cyclohexanedione,3-methyl-

Synonyms: none

Source: Aldrich Chem.



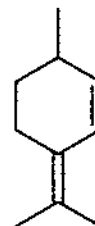
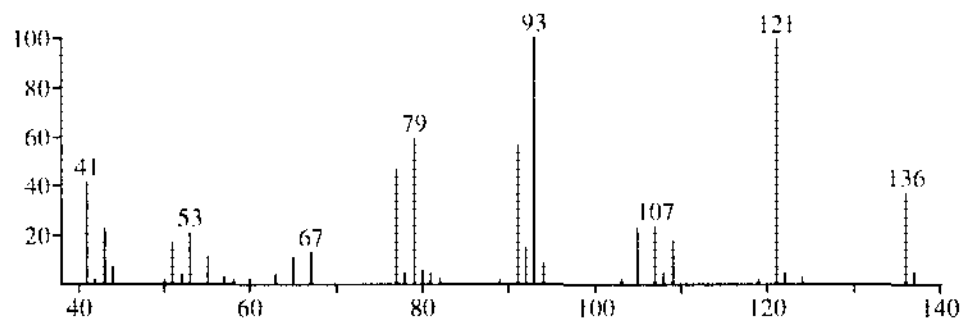
RT: 10.94 AE: 1085 KE: 1088 **Mentha-2,4(8)-diene <p->**

CAS#: 586-63-0 MF: C₁₀H₁₆ FW: 136 MSD LIB#: 586

CN: cyclohexene, 3-methyl-6-(1-methylethylidene)-

Synonyms: p-mentha-2,4(8)-diene; isoterpinolene

Source: *Dicerandra frutescens* oil ex Mark Deyrup, FL



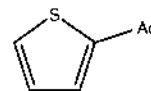
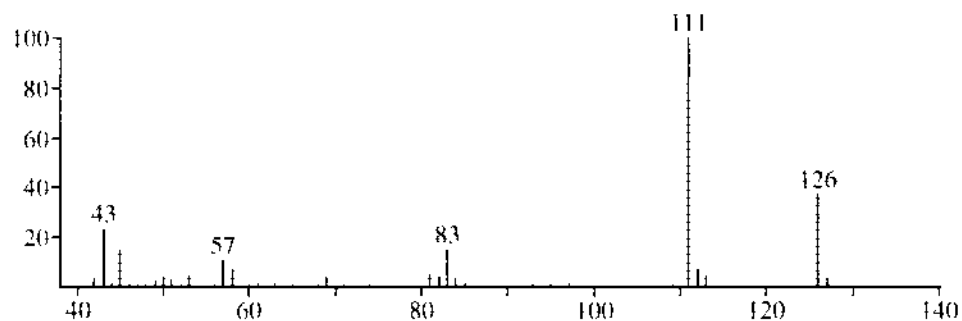
RT: 10.97 AE: 1086 KE: 1088 **Acetyl thiophene <2->**

CAS#: 88-15-3 MF: C₆H₆O S FW: 126 MSD LIB#: 51

CN: ethanone, 1-(2-thienyl)-

Synonyms: ketone, methyl 2-thienyl

Source: Aldrich



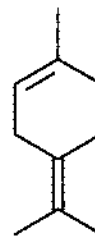
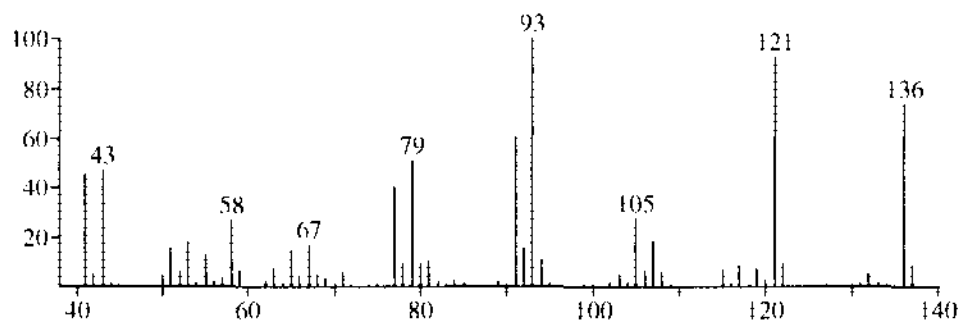
RT: 10.98 AE: 1086 KE: 1088 **Terpinolene**

CAS#: 586-62-9 MF: C₁₀H₁₆ FW: 136 MSD LIB#: 916

CN: cyclohexene, 1-methyl-4-(1-methylethylidene)-

Synonyms: p-mentha-1,4(8)-diene; isoterpinene

Source: *Juniperus lucayana* leaf oil, RP Adams #2863: 49.70% *Vepris elliotii*, JECOR 7:447(1995); 40.28% *Protium heptaphyllum* (stem); 18.91% *Pistacia vera* (fruit hull)



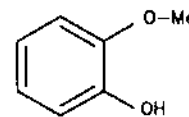
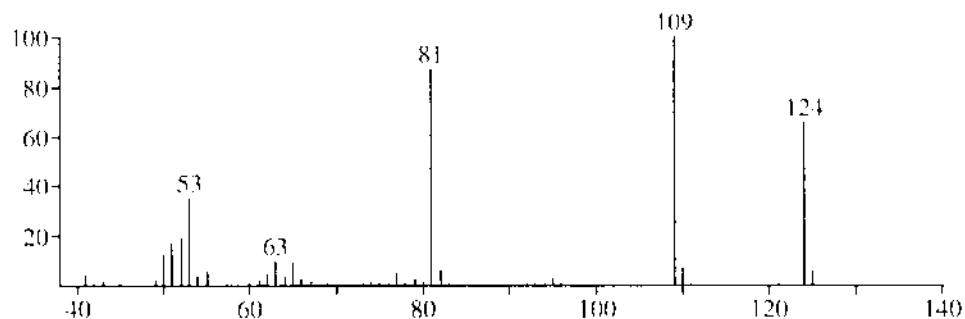
RT: 11.00 AE: 1087 KI: 1089 **Guaiacol <0->**

CAS#: 90-05-1 ME: C₇H₈O₂ FW: 124 MSD LIB#: 755

CN: phenol, 2-methoxy-

Synonyms: anastil; guaiastil; o-hydroxyanisole; o-methyl catechol; pyroguaiac acid

Source: ref. cpd. ex E. von Rudloff



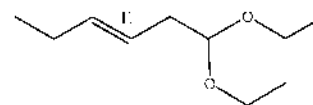
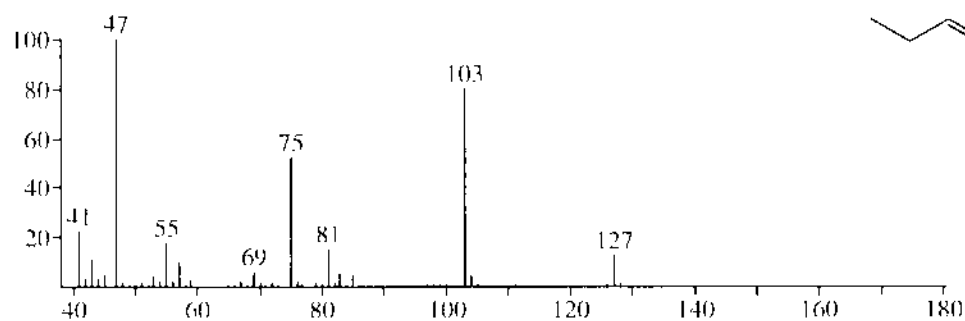
RT: 11.01 AE: 1087 KI: 1089 **Hexenal <diethyl acetal-(3E)->**

CAS#: 51795-75-6 ME: C₁₀H₂₀O₂ FW: 172 MSD LIB#: 2119

CN: 3-hexene, 1,1-diethoxy-, (3E)-

Synonyms: none

Source: Bedoukian Res.



RT: 11.03 AE: 1087 KI: 1090 **Nonanone <2->**

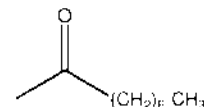
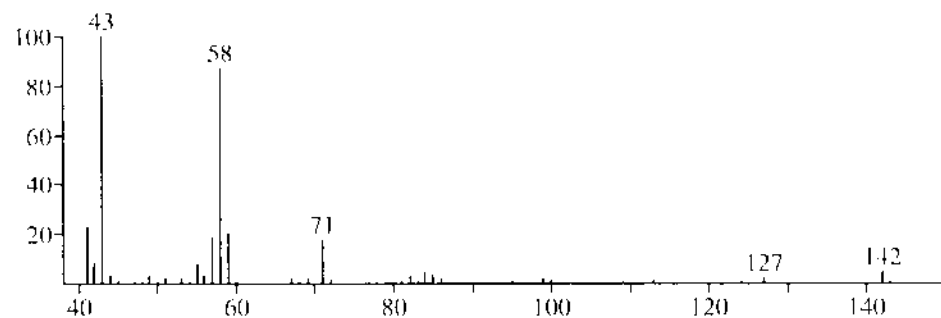
CAS#: 821-55-6 ME: C₉H₁₈O FW: 142 MSD LIB#: 1167

CN: nonanone (2-)

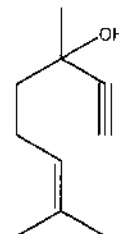
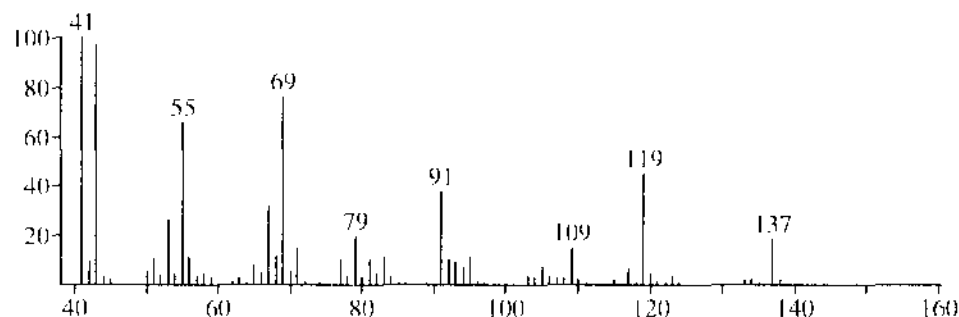
Synonyms: methyl heptyl ketone

Source: K & K Chem. ex H. Hills; 24.70% *Ruta graveolens*, Sci. Pharm. 56:121(1988);

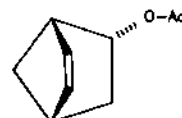
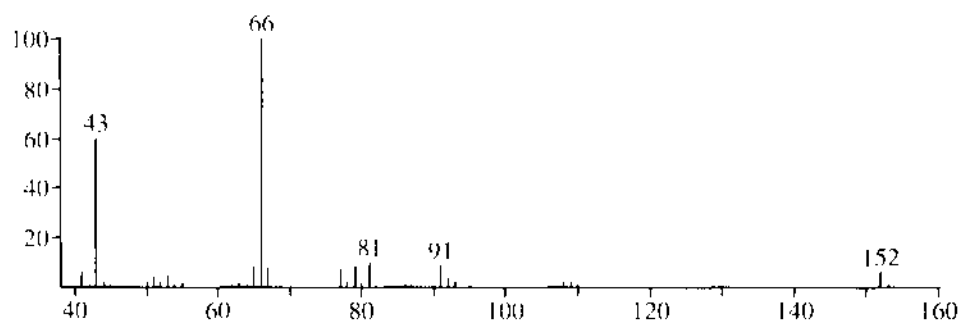
16.24% *Ruta chalepensis*



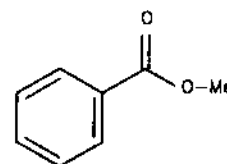
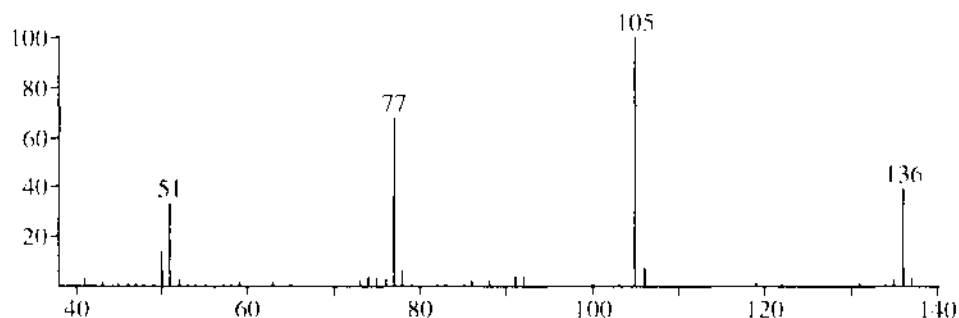
RT: 11.05 AI: 1088 KI: 1090 **Linalool <dehydro->**
 CAS#: 000-00-0 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1013
 CN: not assigned
 Synonyms: none
 Source: ref. epd. ex P. Weyerstahl



RT: 11.05 AI: 1088 KI: 1090 **Norbornen-2-ol acetate <exo-5->**
 CAS#: 5257-37-4 MF: C₉H₁₂O₂ FW: 152 MSD LIB#: 1182
 CN: bicyclo(2.2.1)hept-5-en-2-ol, acetate, exo-
 Synonyms: none
 Source: acetylation of norbornen-2-ol<exo-5->(6288)



RT: 11.07 AI: 1088 KI: 1090 **Methyl benzoate**
 CAS#: 93-58-3 MF: C₈H₈O₂ FW: 136 MSD LIB#: 952
 CN: benzoic acid, methyl ester
 Synonyms: noibe oil; clorius
 Source: Jasmin absolute ex Firmenich ex AF Thomas; 41.21% *Polianthes tuberosa*,
 p. 109, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong(1993);
 32.34% *Gardenia jasminoides*; 23.40% *Narcissus jonquilla*



RT: 11.08 AI: 1089 KI: 1091 **Pentyl butanoate**

CAS#: 540-18-1 MF: C₉H₁₈O₂ FW: 158 MSD LIB#: 313

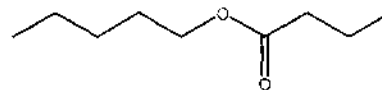
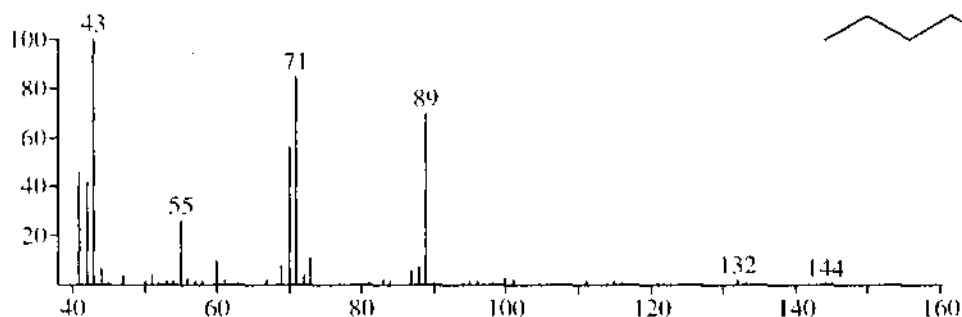
CN: butanoic acid, pentyl ester

Synonyms: amyl butyrate; pentyl butyrate

Source: artificial blackberry flavor, Lorann Oils; 0.03% *Osmanthus fragrans*.

Rastit. Resur. 22:243(1986); 0.01% *Spartium junceum* (absolute);

0.01% *Spartium junceum* (headspace)



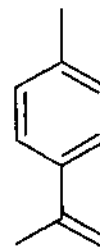
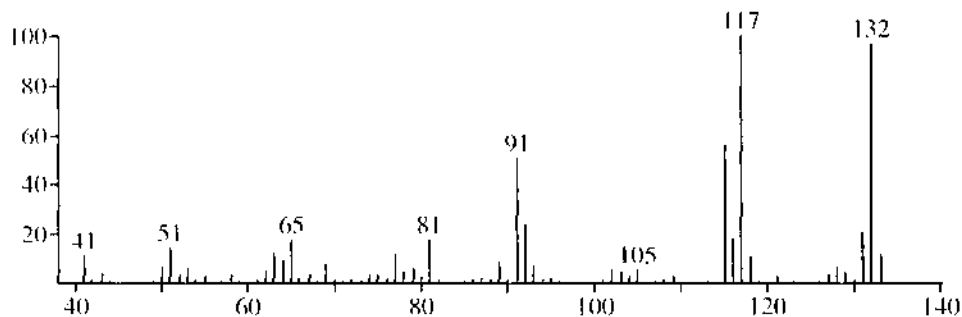
RT: 11.09 AI: 1089 KI: 1091 **Cymene <p>**

CAS#: 1195-32-0 MF: C₁₀H₁₂ FW: 132 MSD LIB#: 427

CN: benzene, 1-methyl-4-(1-methylethenyl)-

Synonyms: α-p-dimethylstyrene; dehydro-p-cymene; 4-isopropenyltoluene

Source: *Chamaecyparis nootkatensis* leaf oil ex E. von Rudloff



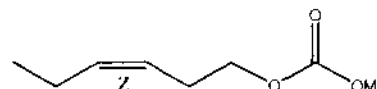
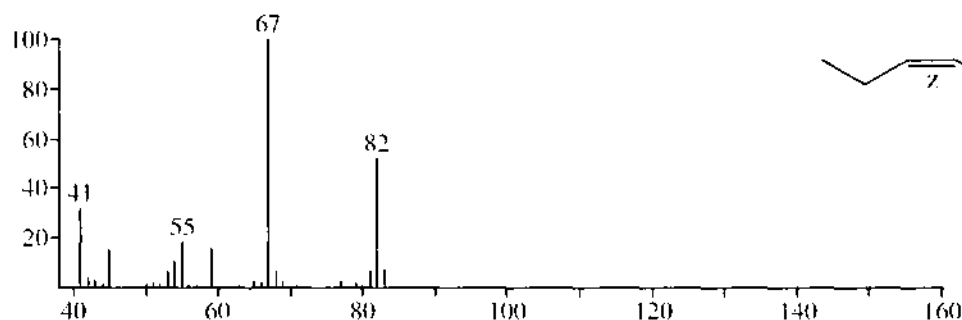
RT: 11.11 AI: 1090 KI: 1091 **Hexenyl methyl carbonate <(3Z)->**

CAS#: 67633-96-9 MF: C₈H₁₄O₃ FW: 158 MSD LIB#: 2045

CN: carbonic acid, (3Z)-3-hexenyl methyl ester

Synonyms: none

Source: Bedoukian Res.



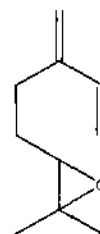
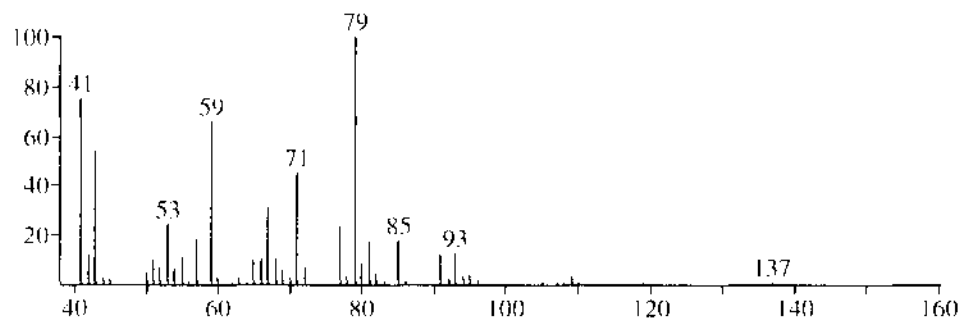
RT: 11.14 AE: 1090 KI: 1092 **Epoxymyrcene <6,7->**

CAS#: 29414-55-9 ME: C₁₀H₁₆O FW: 152 MSD LIB#: 1021

CN: oxirane, 2,2-dimethyl-3-(3-methylene-4-pentenyl)-

Synonyms: myrcene epoxide

Source: *Lippia multiflora* oil ex C. Menut & G. Lamaty: 70.30% *Lippia multiflora* (leaf),
FFJ 10:75(1995)



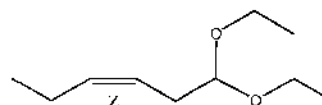
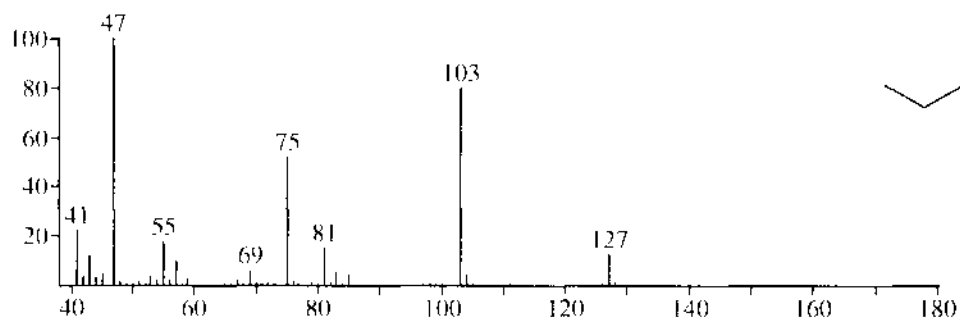
RT: 11.14 AE: 1090 KI: 1092 **Hexenal <diethyl acetal-(3Z)->**

CAS#: 73545-18-3 ME: C₁₀H₂₀O₂ FW: 172 MSD LIB#: 2121

CN: 3-hexene, 1,1-diethoxy-, (Z)-

Synonyms: none

Source: Bedoukian Res.



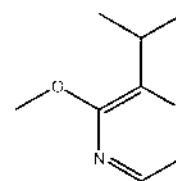
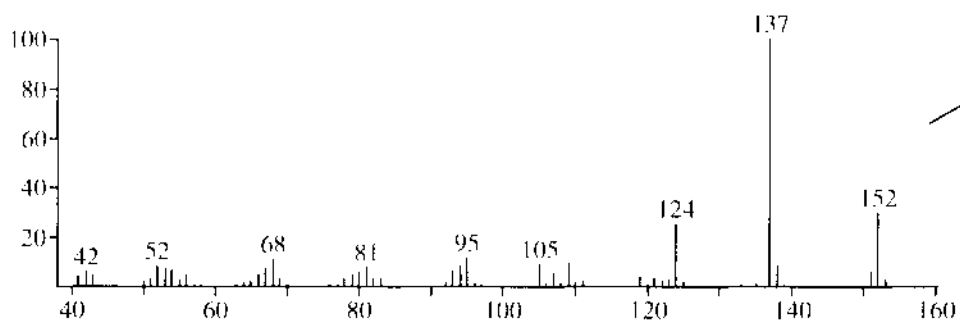
RT: 11.14 AE: 1090 KI: 1092 **Isopropyl-2-methoxypyrazine <3->**

CAS#: 25773-40-4 ME: C₈H₁₂N₂O FW: 152 MSD LIB#: 1622

CN: pyrazine, 2-methoxy-3-(1-methylethyl)-

Synonyms: none

Source: Aldrich Chem.



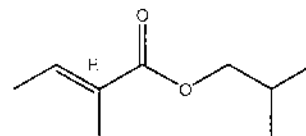
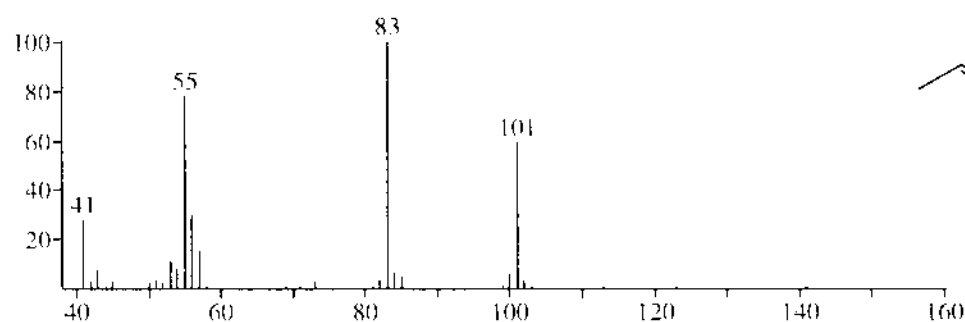
RT: 11.15 AI: 1088 KE: 1090 **Isobutyl tiglate**

CAS#: 61692-84-0 MI: C₉H₁₆O₂ FW: 156 MSD LIB#: 860

CN: 2-butenoic acid, 2-methyl-, 2-methylpropyl ester, (E)-

Synonyms: none

Source: Aldrich Chem. ex Art Tucker: 0.34% *Anthemis nobilis* (Japan), Koryo 161:93(1989);
0.03% *Anthemis nobilis* (India)



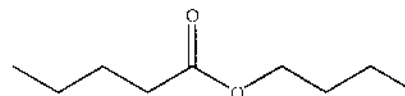
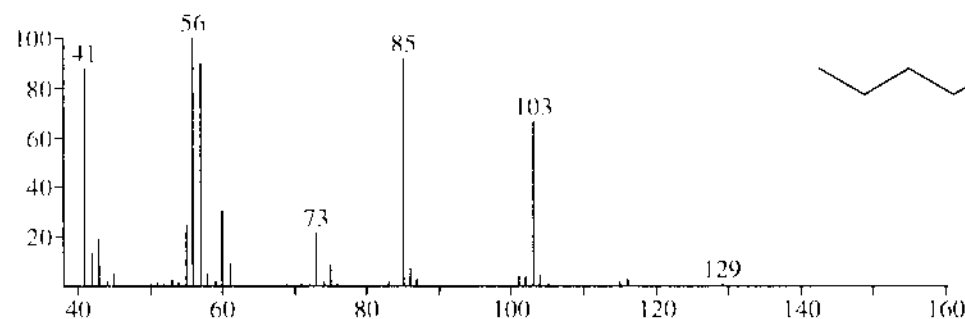
RT: 11.19 AI: 1092 KE: 1093 **Butyl pentanoate**

CAS#: 591-68-4 MI: C₉H₁₈O₂ FW: 158 MSD LIB#: 330

CN: pentanoic acid, butyl ester

Synonyms: butyl valerate; valeric acid, butyl ester

Source: Aldrich Chem.; 0.01% *Spartium junceum*, Rivista Ital. EPPOS 325-343(1992)



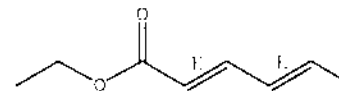
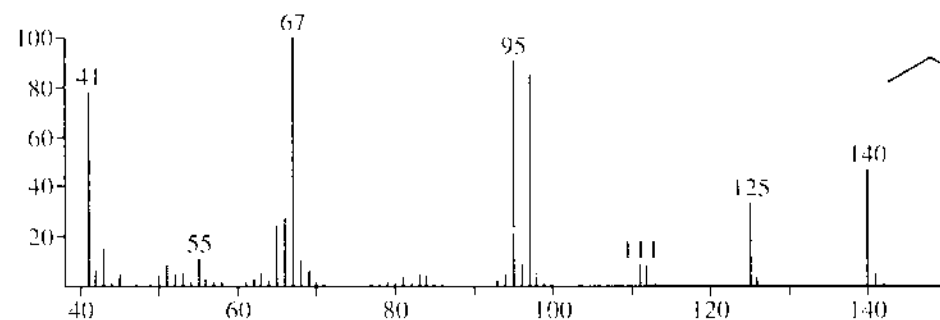
RT: 11.20 AI: 1092 KE: 1093 **Ethyl sorbate**

CAS#: 2396-84-1 MI: C₈H₁₂O₂ FW: 140 MSD LIB#: 2149

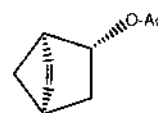
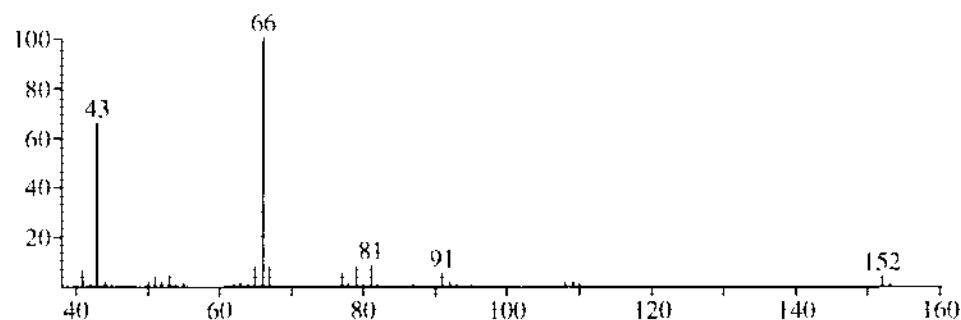
CN: 2,4-hexadienoic acid, ethyl ester, (2E,4E)-

Synonyms: sorbic acid, ethyl ester

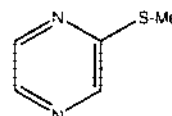
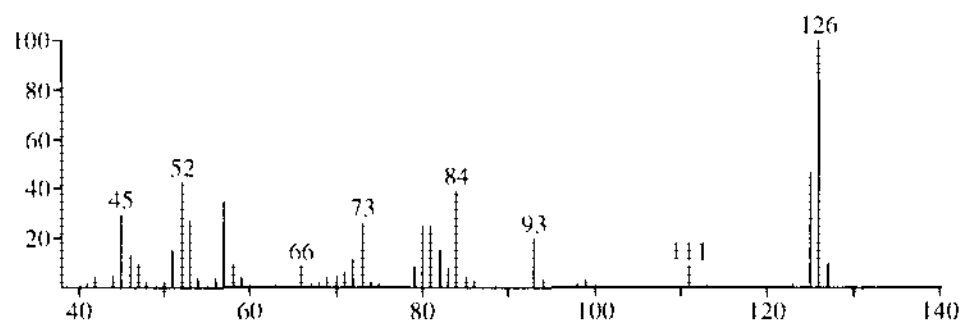
Source: Bedoukian Res.



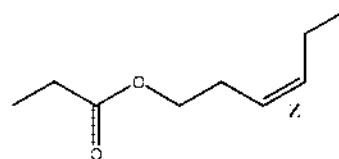
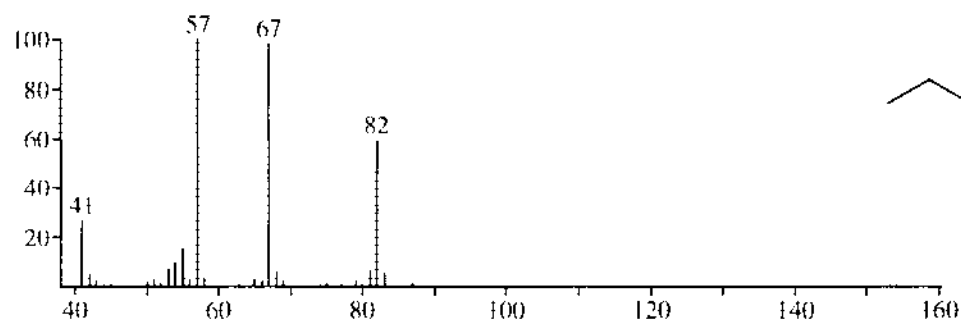
RT: 11.22 AE: 1092 KI: 1094 **Norbornen-2-ol acetate <endo-5->**
 CAS#: 99295-40-6 MF: C₉H₁₂O₂ FW: 152 MSD LIB#: 1179
 CN: bicyclo(2.2.1)hept-5-en-2-ol, acetate, endo-
 Synonyms: none
 Source: acetylation of norbornen-2-ol<endo-5->(6294)



RT: 11.23 AE: 1093 KI: 1094 **Pyrazine <methylthio->**
 CAS#: 21948-70-9 MF: C₅H₆N₂S FW: 126 MSD LIB#: 1354
 CN: pyrazine, (methylthio)-
 Synonyms: none
 Source: Pyrazine Specialties ex Art Tucker



RT: 11.30 AE: 1095 KI: 1096 **Hexenyl propionate <(3Z)->**
 CAS#: 33467-74-2 MF: C₉H₁₆O₂ FW: 156 MSD LIB#: 1946
 CN: (3Z)-hexen-1-ol, propanoate
 Synonyms: hexenyl propionate, cis-3-
 Source: Bedoukian Res. ex JJ Brophy; 0.37% *Chamomilla recutita*, Dragoco Rept.
 3-31(1992); 0.16% *Liquidamber formosana*; 0.10% *Artemisia annua*



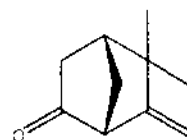
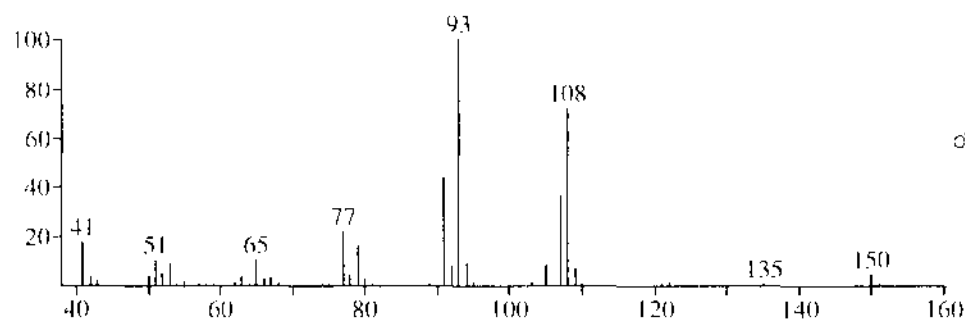
RT: 11.32 AI: 1095 KI: 1096 **Camphenone <6->**

CAS#: 53803-33-1 MF: C₁₀H₁₄O FW: 150 MSD LIB#: 617

CN: bicyclo[2.2.1]heptan-2-one, 5,5-dimethyl-6-methylene-

Synonyms: none

Source: *Diplazenia cachrydifoliae* ex K. Harkiss



RT: 11.32 AI: 1095 KI: 1096 **Linalool**

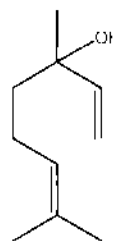
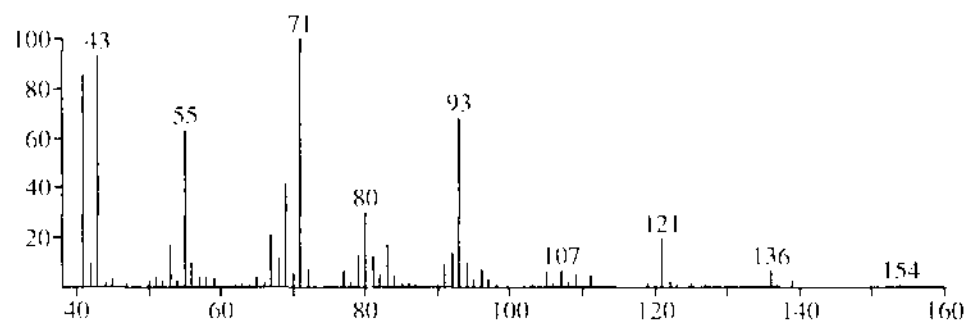
CAS#: 78-70-6 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 307

CN: dimethyl-1,6-octadien-3-ol<3,7->

Synonyms: none

Source: distillation of black pepper, RP Adams #5448; 94.90% *Cinnamomum camphora*,

JBCR 4:161(1992); 94.29% *Cinnamomum parthenoxylum*; 89.00% *Michelia alba*



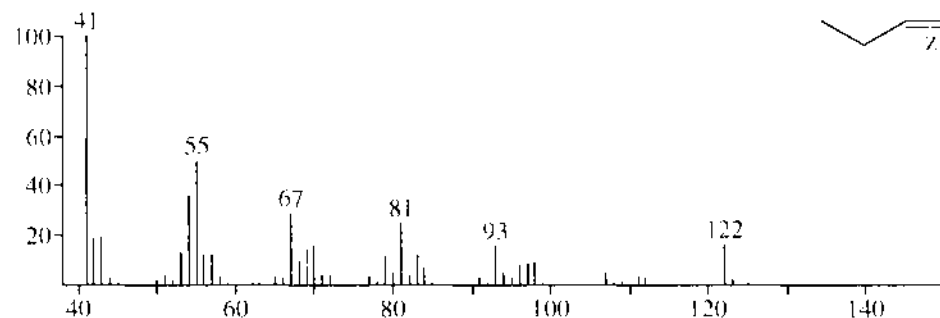
RT: 11.38 AI: 1097 KI: 1097 **Nonenal <(6Z)->**

CAS#: 2277-19-2 MF: C₉H₁₆O FW: 140 MSD LIB#: 2131

CN: 6-nonenal, (6Z)-

Synonyms: none

Source: Bedoukian Res.



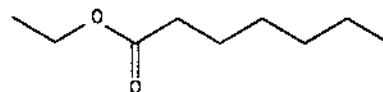
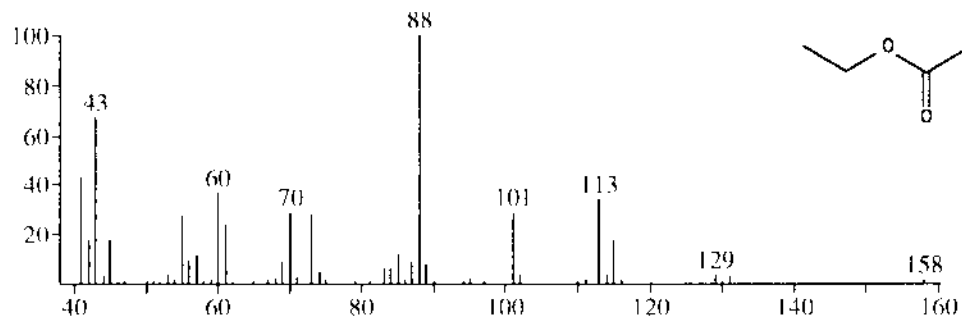
RT: 11.40 AI: 1097 KI: 1098 **Ethyl heptanoate**

CAS#: 106-30-9 MF: C₉H₁₈O₂ FW: 158 MSD LIB#: 80

CN: heptanoic acid, ethyl ester

Synonyms: ethyl enanthate, ethyl heptylate, enanthic ether

Source: Aldrich Chem.; 0.15% *Citrus reticulata* (leaf), JEOR 2:331(1990);
0.10% *Narcissus tazetta* (absolute); 0.10% *Citrus medica* (leaf)



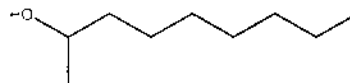
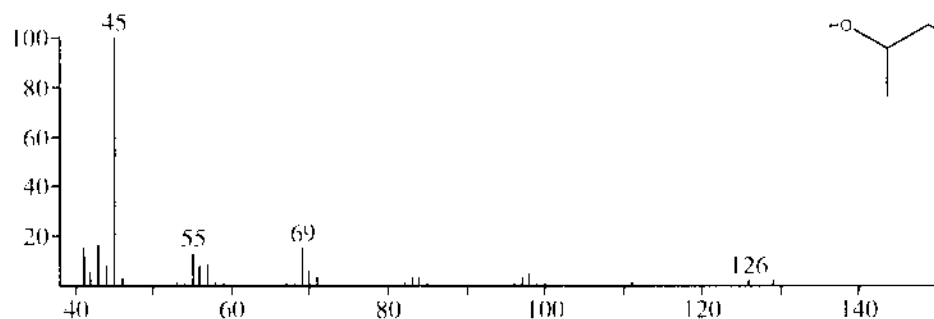
RT: 11.40 AI: 1097 KI: 1098 **Nonanol <2->**

CAS#: 628-99-9 MF: C₉H₂₀O FW: 144 MSD LIB#: 1816

CN: 2-nonanol

Synonyms: sec-nonyl alcohol

Source: alcohols mix (2-OHs) ex K-H Kubeczka; 2.00% *Curcuma heyneana*,
FEJ 7:19(1992); 1.40% *Curcuma aeruginosa*; 1.30% *Psidium guajava*



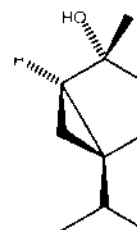
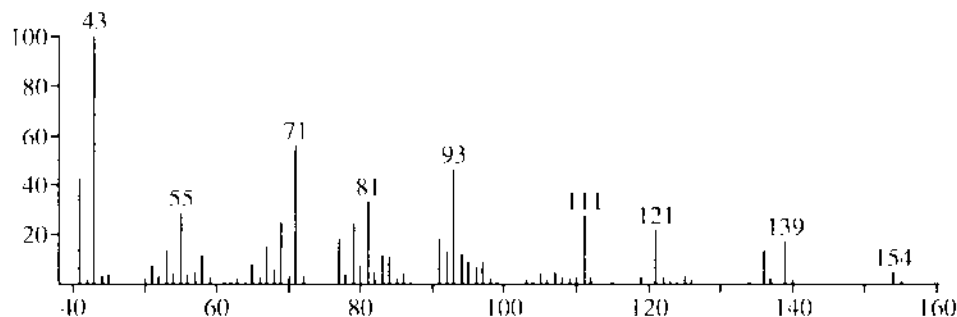
RT: 11.41 AI: 1098 KI: 1098 **Sabinene hydrate <trans-> (IPP vs. OH)**

CAS#: 15826-82-1 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1439

CN: bicyclo(3.1.0)hexan-2-ol, 2-methyl-5-(1-methylethyl)-, (1α,2β,5α)-

Synonyms: cis-4-thujanol; cis-sabinene hydrate (IPP vs. Me, old name)

Source: *Strobilanthes* oil ex P. Weyerstahl; 85.30% *Mentha candicans*, Ag. Biol.
Chem. 42:433(1978); 26.20% *Lippia ukambensis*; 10.00% *Thymus pinewood*



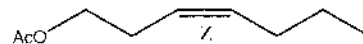
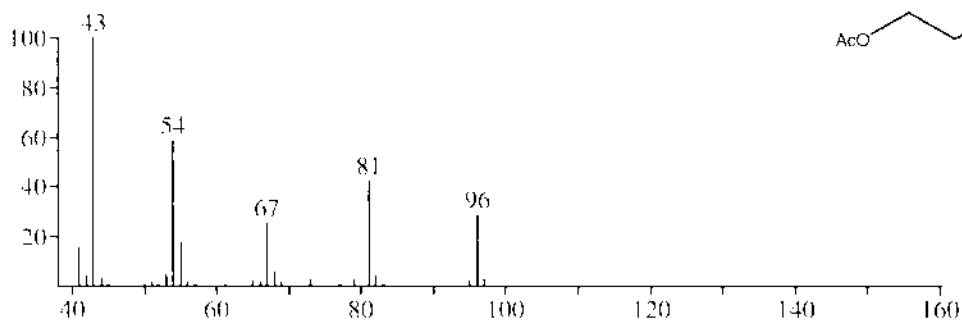
RT: 11.42 AI: 1098 KI: 1098 **Heptenol acetate <(3Z)->**

CAS#: 1576-78-9 ME: C₉H₁₆O₂ FW: 156 MSD LIB#: 2077

CN: 3-hepten-1-ol, acetate(3Z-)

Synonyms: none

Source: Bedoukian Res.



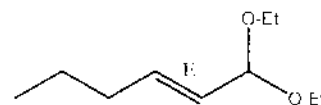
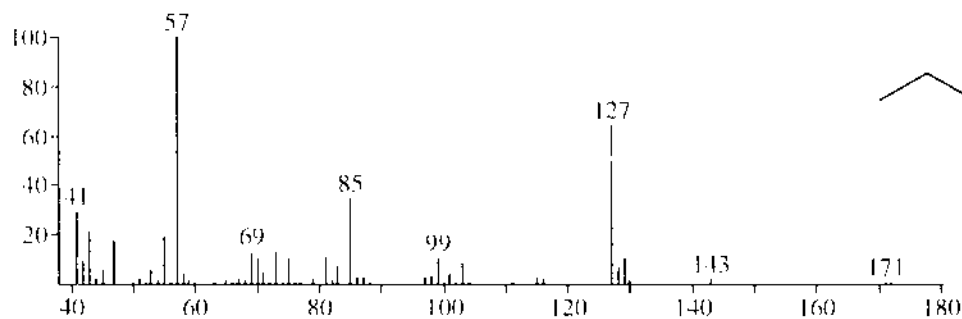
RT: 11.42 AI: 1098 KI: 1098 **Hexenal <(2E)->, diethyl acetal**

CAS#: 67746-30-9 ME: C₁₀H₂₀O₂ FW: 172 MSD LIB#: 803

CN: 2-hexene, 1,1-diethoxy-, (E)-

Synonyms: (E)-1,1-diethoxy-2-hexene

Source: Bedoukian Res. ex Art Tucker



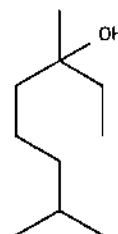
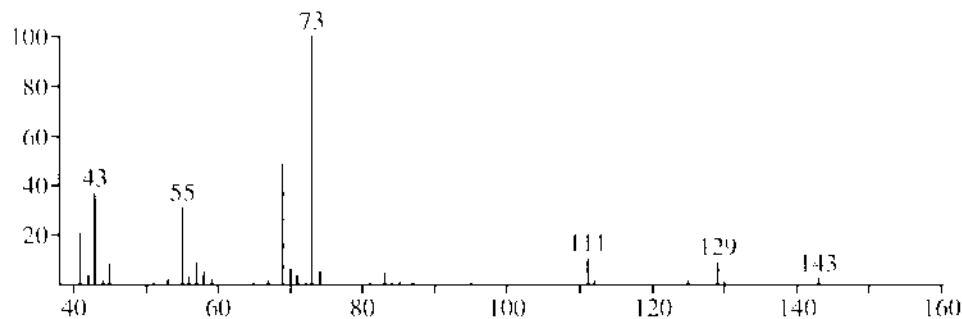
RT: 11.43 AI: 1098 KI: 1098 **Linalool <tetrahydro->**

CAS#: 78-69-3 ME: C₁₀H₁₈O FW: 158 MSD LIB#: 1475

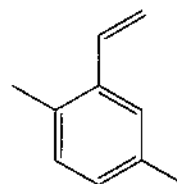
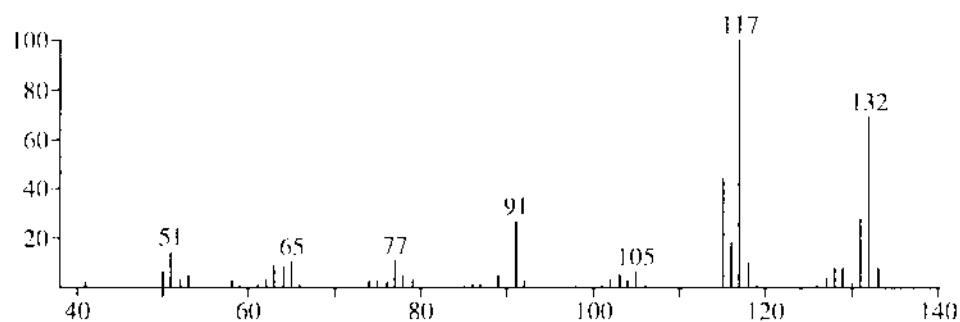
CN: 3-octanol, 3,7-dimethyl-

Synonyms: 2,6-dimethyl-6-octanol

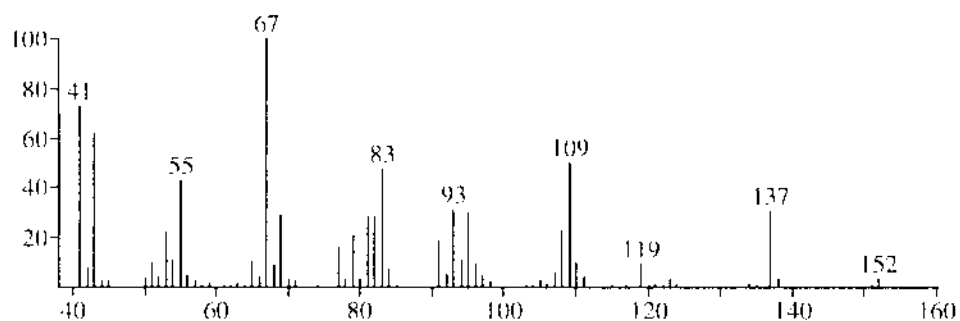
Source: SCM Chem. ex H. Hills



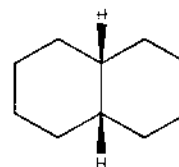
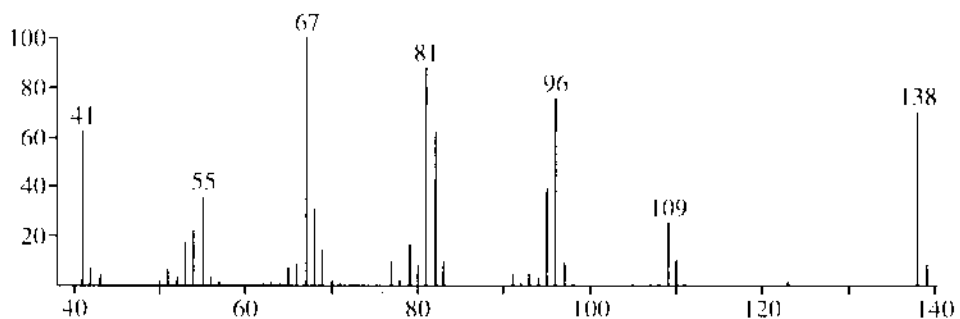
RT: 11.44 AI: 1099 KI: 1099 **Dimethyl styrene <2,5->**
 CAS#: 27576-03-0 MF: C₁₀H₁₂ FW: 132 MSD LIB#: 612
 CN: benzene, ethenyl-, dimethyl deriv.
 Synonyms: dimethylstyrol
 Source: Aldrich Chem.



RT: 11.45 AI: 1099 KI: 1099 **Pinene oxide <α->**
 CAS#: 1686-14-2 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1302
 CN: 3-oxatricyclo(4.1.1.0^{2,4})octane, 2,7,7-trimethyl-
 Synonyms: 2,3-epoxypinane
 Source: ref. cpd. ex Tom Phillips, FSU



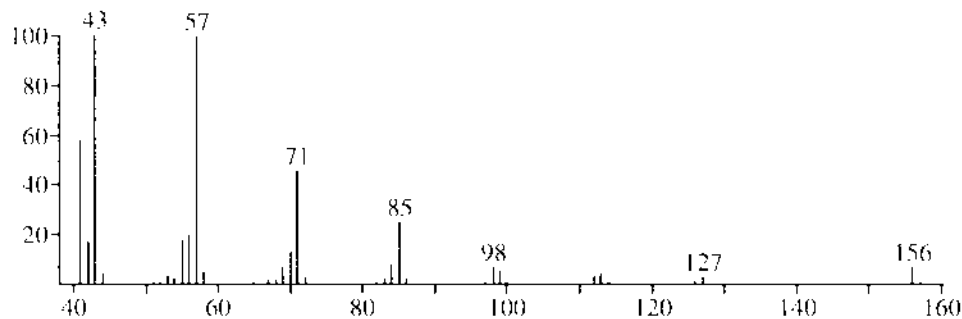
RT: 11.46 AI: 1099 KI: 1099 **Naphthalene <cis-decahydro->**
 CAS#: 493-01-6 MF: C₁₀H₁₈ FW: 138 MSD LIB#: 567
 CN: naphthalene, decahydro-, cis-
 Synonyms: cis-decalin; cis-perhydronaphthalene
 Source: Aldrich Chem.



RT: 11.48 AI: 1100 KE: 1100 **Undecane <n>**CAS#: 1120-21-4 MF: C₁₁H₂₄ FW: 156 MSD LIB#: 90

CN: undecane

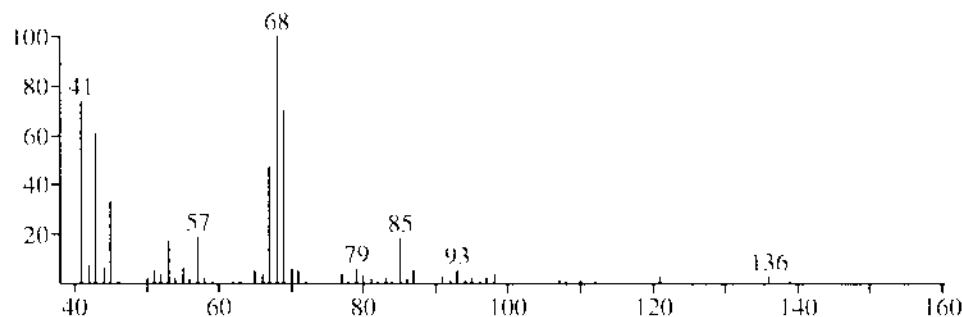
Synonyms: hendecane

Source: Alltech Assoc.: 13.30% *Acacia praecox*, FEJ 11:3(1996): 7.50% *Pittosporum tobira*, 6.75% *Cymbidium sinense*RT: 11.49 AI: 1100 KE: 1100 **Ipsenol**CAS#: 35628-05-8 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 849

CN: 7-octen-4-ol, 2-methyl-6-methylene-

Synonyms: none

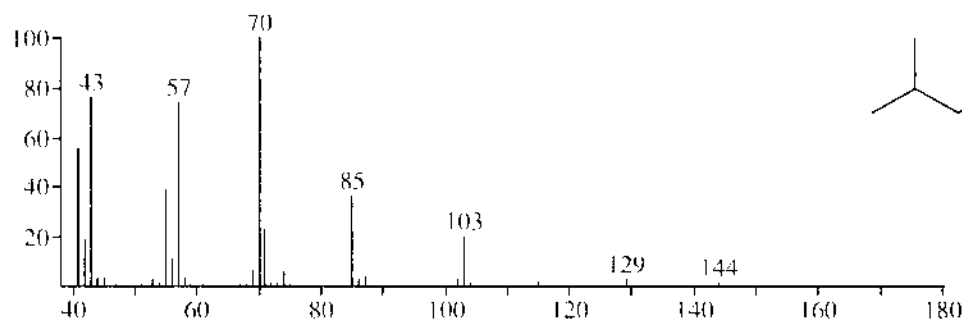
Source: ref. cpd. ex Tom Phillips, FSU

RT: 11.49 AI: 1100 KE: 1100 **Isopentyl 2-methyl butanoate**CAS#: 27625-35-0 MF: C₁₀H₂₀O₂ FW: 172 MSD LIB#: 871

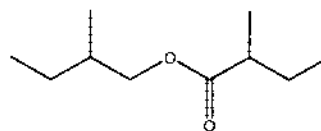
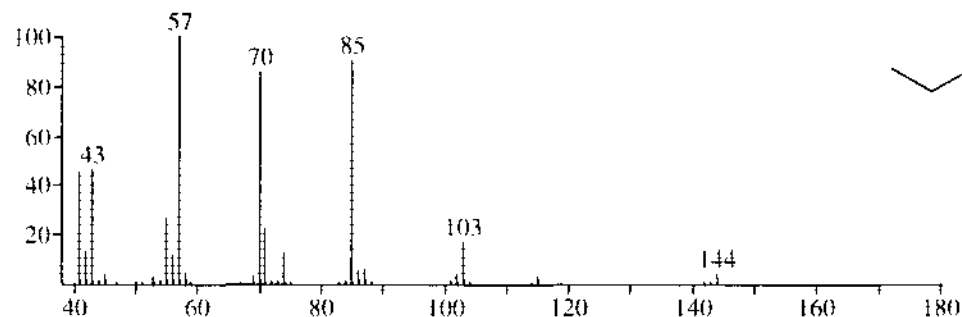
CN: butanoic acid, 2-methyl, 3-methylbutyl ester

Synonyms: isoamyl 2-methyl butanoate; isopentyl 2-methyl butyrate

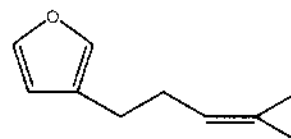
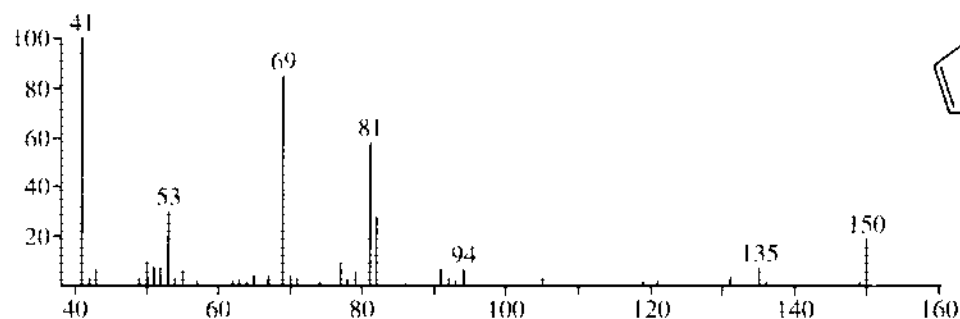
Source: ref. cpd. ex Art Tucker



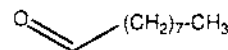
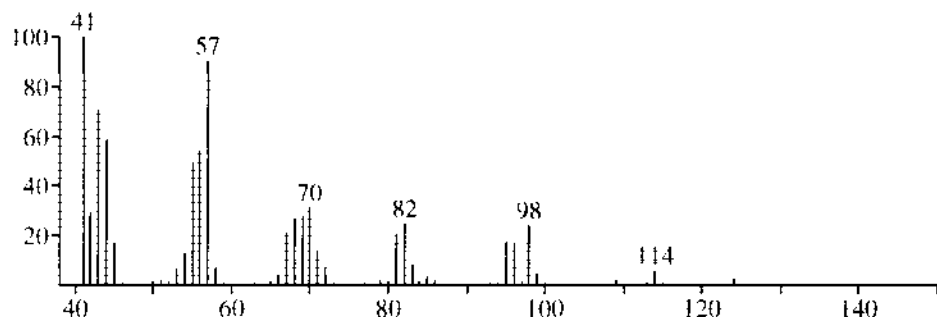
RT: 11.50 AE: 1100 KE: 1100 **Methyl butyl-2-methyl butyrate <2->**
 CAS#: 2445-78-5 MF: C10 H20 O2 FW: 172 MSD LIB#: 1698
 CN: butanoic acid, 2-methyl-, 2-methylbutyl ester
 Synonyms: none
 Source: Aldrich Chem.: 12.00% *Anthemis nobilis*, Essence Deriv. Agrum. 93:107(1973);
 0.54% *Myrtus communis* (unripe fruit); 0.40% *Achillea wilhelmsii* (Egypt)



RT: 11.50 AE: 1102 KE: 1103 **Perillene**
 CAS#: 539-52-6 MF: C10 H14 O FW: 150 MSD LIB#: 362
 CN: furan, 3-(4-methyl-3-pentenyl)-
 Synonyms: none
 Source: carrot seed oil ex Nestle ex A Chainteau: 2.70% *Erigeron canadensis*,
 JEOR 4:227(1992); 0.72% *Rosa damascena*; 0.40% *Abies holophylla*



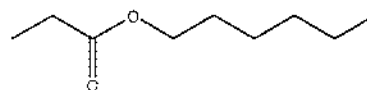
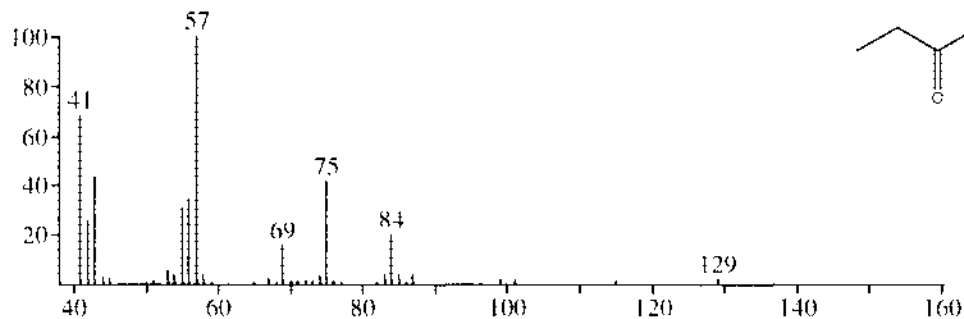
RT: 11.51 AE: 1100 KE: 1100 **Nonanal <n->**
 CAS#: 124-19-6 MF: C9 H18 O FW: 142 MSD LIB#: 39
 CN: 1-nonanal
 Synonyms: pelargonaldehyde
 Source: ref. cpd. ex E. von Rudloff; 16.63% *Fragaria x ananassa* (leaf), JEOR 5:105(1993);
 7.29% *Ligustrum sinense* (flower); 4.90% *Carum carvi*



RT: 11.53 AI: 1101 KE: 1101 **Hexyl propanoate**CAS#: 2445-76-3 MF: C₉H₁₈O₂ FW: 158 MSD LIB#: 1659

CN: Propanoic acid, hexyl ester

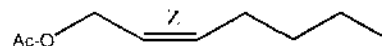
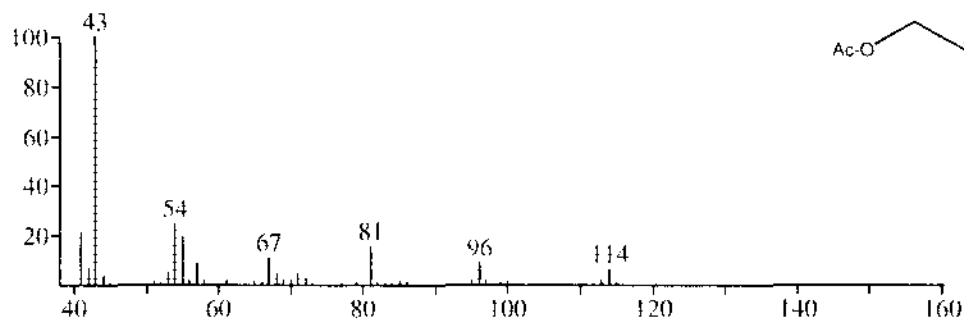
Synonyms: Hexyl propionate

Source: Aldrich Chem.: 0.20% *Hibiscus abelmoschus*, FFJ 7:65(1992);0.17% *Chamomilla recutita*; 0.06% *Lavandula x hybrida*RT: 11.56 AI: 1101 KE: 1102 **Heptenyl acetate <(2Z)->**CAS#: 83540-70-9 MF: C₉H₁₆O₂ FW: 156 MSD LIB#: 794

CN: 2-hepten-1-ol, acetate, (Z)-

Synonyms: none

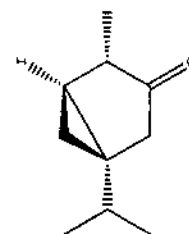
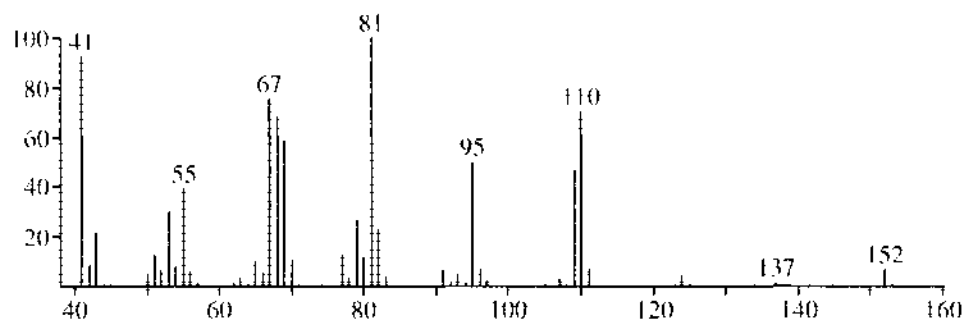
Source: Bedoukian Res. ex Art Tucker

RT: 11.56 AI: 1101 KE: 1102 **Thujone <cis->**CAS#: 546-80-5 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1497

CN: 4-methyl-1-(methylethyl)bicyclo(3.1.0)-hexane-3-one

Synonyms: α-thujone

Source: ref. cpd. ex E. von Rudloff



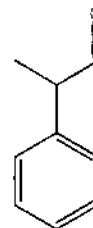
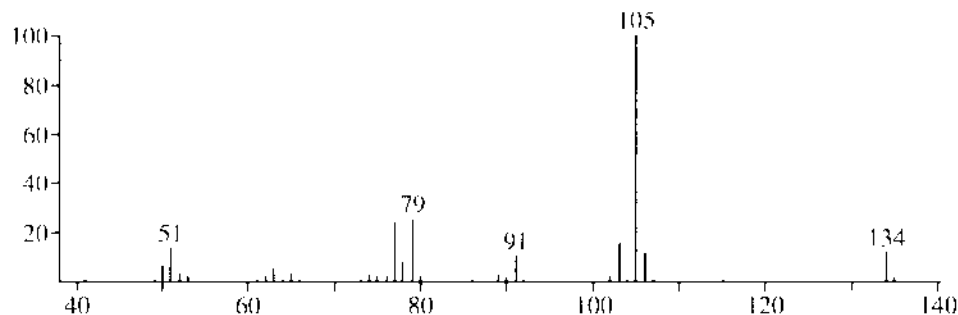
RT: 11.58 AE: 1102 KI: 1102 **Phenyl propanal <2>-**

CAS#: 93-53-8 ME: C₉H₁₀O FW: 134 MSD LIB#: 1349

CN: benzene acetaldehyde, α -methyl-

Synonyms: phenylpropionaldehyde, α -: cumene aldehyde; hyacinthal; hydrotropic aldehyde

Source: Givaudan ex H. Hills



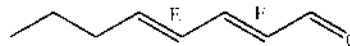
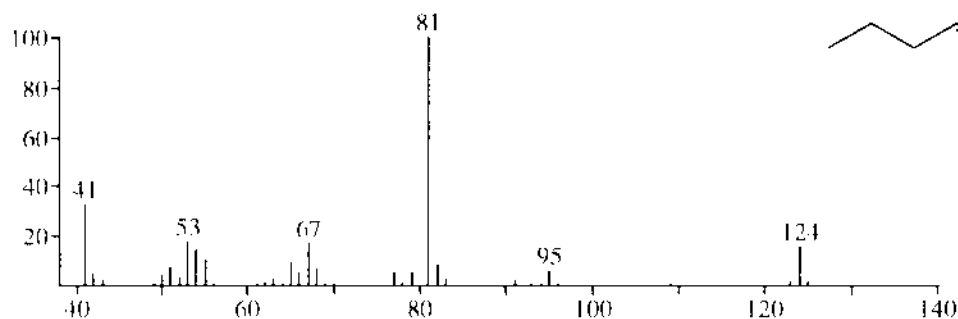
RT: 11.59 AE: 1102 KI: 1103 **Octadienal <(2E,4E)->**

CAS#: 30361-28-5 ME: C₈H₁₂O FW: 124 MSD LIB#: 2153

CN: 2,4-octadienal, (2E,4E)-

Synonyms: trans, trans octadienal

Source: Bedoukian Res.



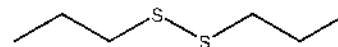
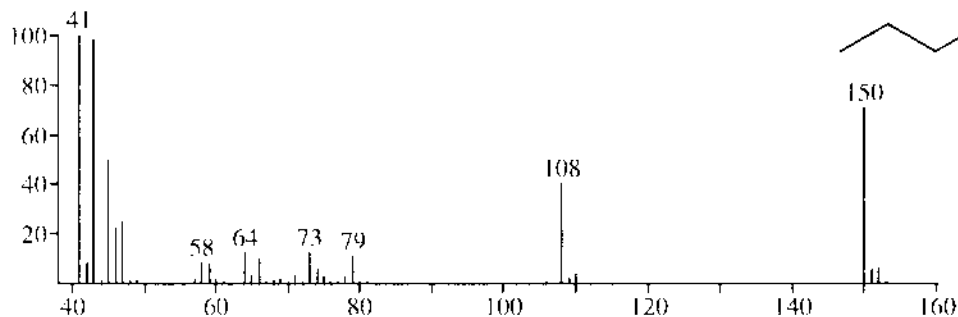
RT: 11.60 AE: 1102 KI: 1103 **Disulfide, dipropyl**

CAS#: 629-19-6 ME: C₆H₁₄S₂ FW: 150 MSD LIB#: 1694

CN: disulfide, dipropyl

Synonyms: propyl sulfide, dipropyl sulfide

Source: Aldrich Chem.



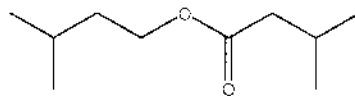
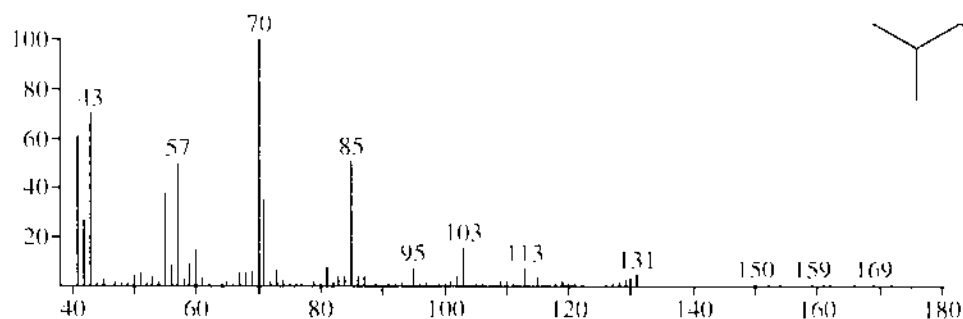
RT: 11.60 AI: 1102 KI: 1103 **Isopentyl isovalerate**

CAS#: 659-70-1 MF: C₁₀H₂₀O₂ FW: 172 MSD LIB#: 922

CN: isopentyl-3-methylbutanoic acid

Synonyms: isoamyl isovalerate

Source: *Juniperus monticola* f. *compacta* leaf oil, RP Adams #2580



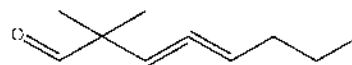
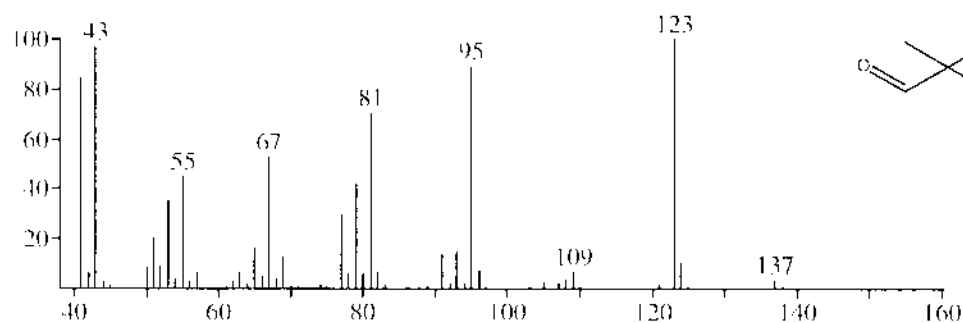
RT: 11.62 AI: 1103 KI: 1103 **Octadienal <2,2-dimethyl-3,4->**

CAS#: 590-71-6 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1203

CN: 3,4-octadienal, 2,2 dimethyl-

Synonyms: none

Source: ref. cpd. ex E. Von Rudloff



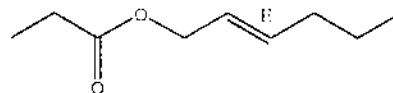
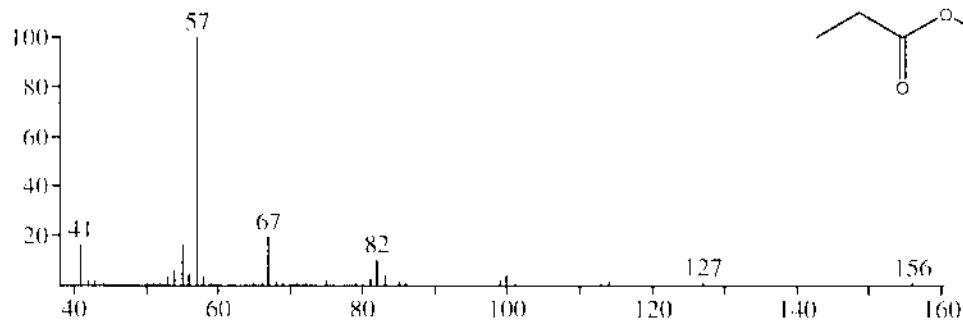
RT: 11.65 AI: 1103 KI: 1104 **Hexenyl propanoate <(2E)->**

CAS#: 53398-80-4 MF: C₉H₁₆O₂ FW: 156 MSD LIB#: 1953

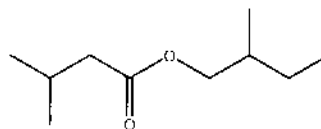
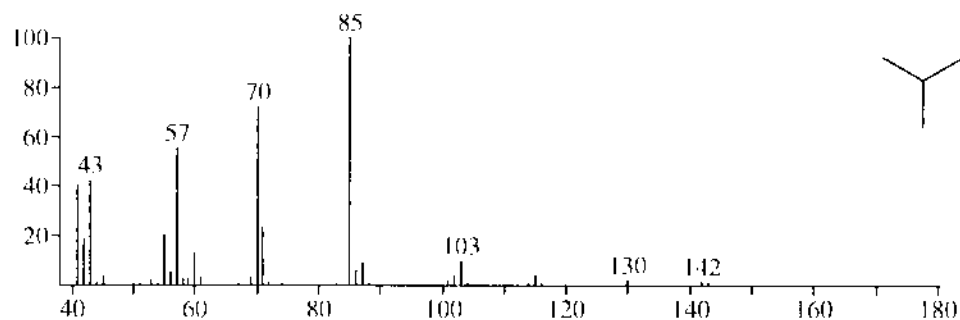
CN: 2-hexen-1-ol, propanoate, (E)-

Synonyms: none

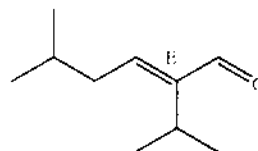
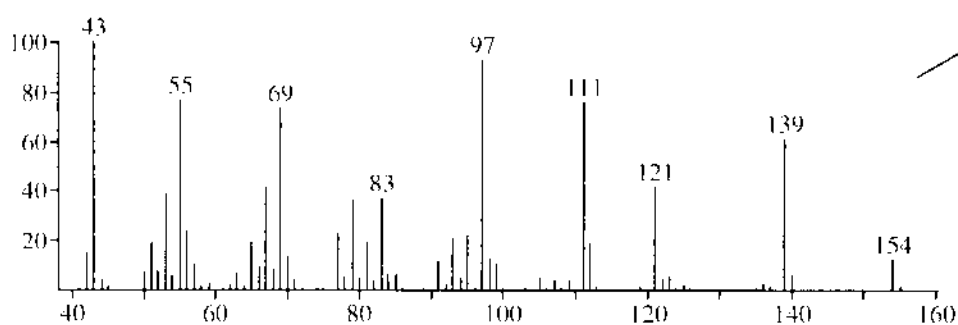
Source: Bedoukian Res. ex JJ Brophy



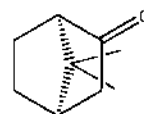
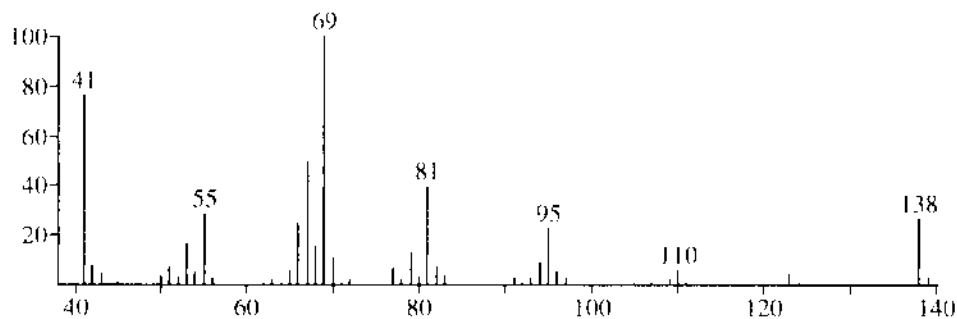
RT: 11.65 AE: 1103 KE: 1104 **Methyl butyl isovalerate <2>**
 CAS#: 2445-77-4 ME: C₁₀H₂₀O₂ FW: 172 MSD LIB#: 1689
 CN: butanoic acid, 3-methyl-, 2-methylbutyl ester
 Synonyms: isovaleric acid, 2-methylbutyl ester
 Source: Aldrich Chem.



RT: 11.66 AE: 1104 KE: 1104 **Isopropyl-5-methyl-(2E)-hexenal <2>**
 CAS#: 69104-96-7 ME: C₁₀H₁₈O FW: 154 MSD LIB#: 1626
 CN: 2-hexenal, 5-methyl-2-(1-methylethyl)-, (2E)-
 Synonyms: isodihydrolavandulyl aldehyde
 Source: Aldrich Chem.



RT: 11.69 AE: 1104 KE: 1105 **Fenchocamphorone <α>**
 CAS#: 40550-41-2 ME: C₉H₁₄O FW: 138 MSD LIB#: 711
 CN: bicyclo(2.2.1)heptan-2-one, 7,7-dimethyl-, (1R,4R)-
 Synonyms: none
 Source: ref. cpd. ex Y. Yuasa, Japan



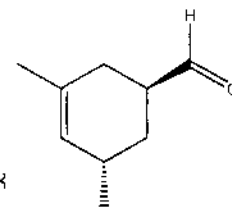
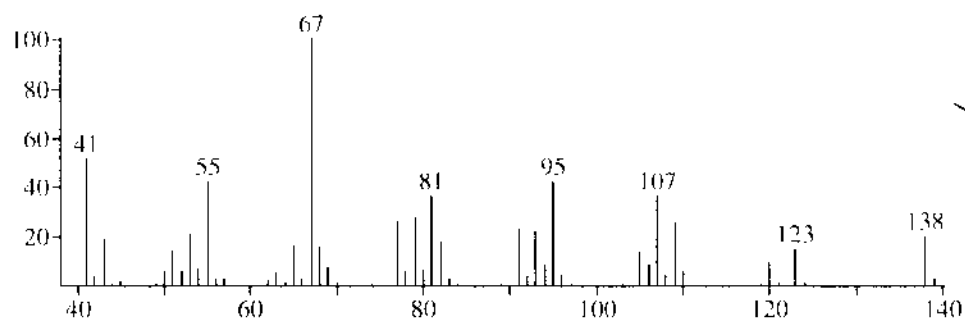
RT: 11.72 AI: 1105 KI: 1106 **Vertocitral C <trans->**

CAS#: 65405-79-0 MF: C₉H₁₄O FW: 138 MSD LIB#: 1553

CN: 3-cyclohexene-1-carboxaldehyde, 3,5-dimethyl-, trans-

Synonyms: dimethyl cyclohexene carboxaldehyde

Source: H & R Chem. ex Jian-Qin Cu, Kunming



RT: 11.74 AI: 1106 KI: 1107 **Dimethyl phenol <2,6->**

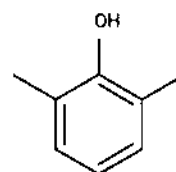
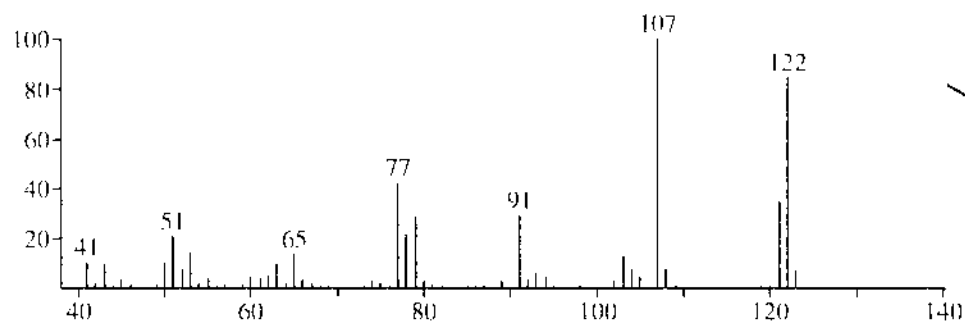
CAS#: 576-26-1 MF: C₈H₁₀O FW: 122 MSD LIB#: 750

CN: phenol, 2,6-dimethyl-

Synonyms: 2,6-xyleneol

Source: Groh mixture for GC, Alltech Assoc.: 0.28% *Osmanthus fragrans*,

Rastit. Resur. 22:243(1986)



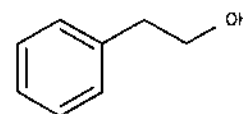
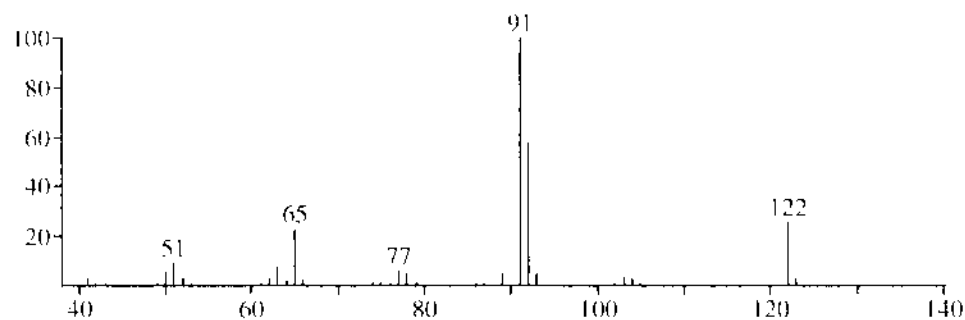
RT: 11.75 AI: 1106 KI: 1107 **Phenyl ethyl alcohol**

CAS#: 60-12-8 MF: C₈H₁₀O FW: 122 MSD LIB#: 1362

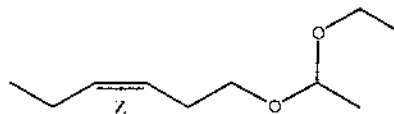
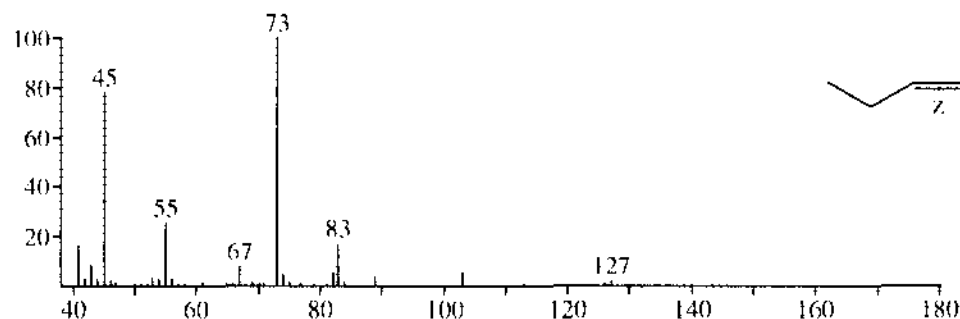
CN: benzene ethanol

Synonyms: benzyl ethanol

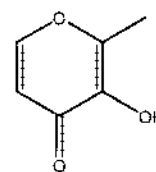
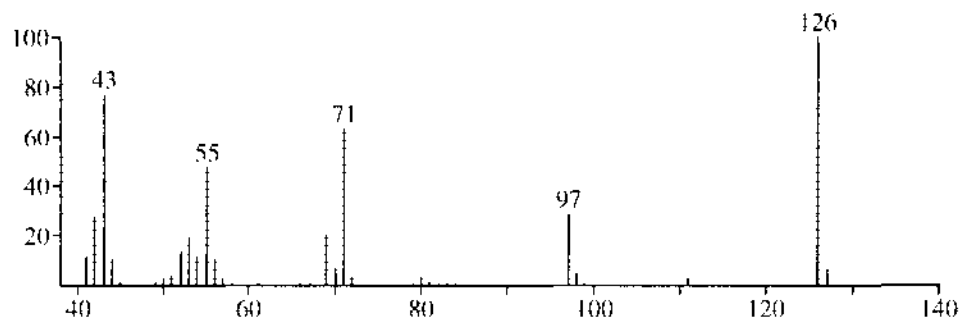
Source: Rose oil ex Firmenisch ex AF Thomas



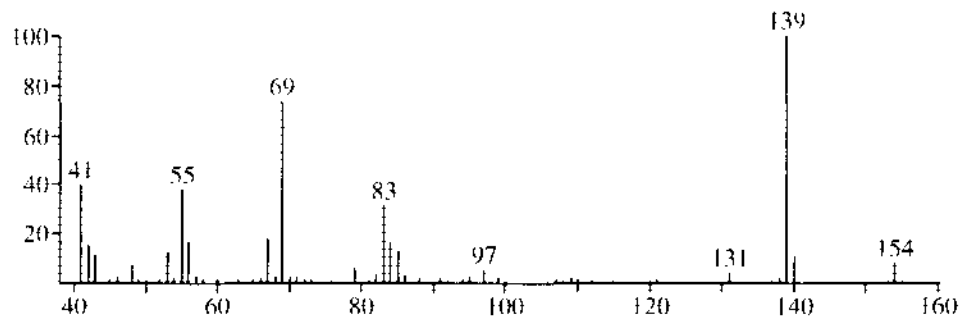
RT: 11.77 AI: 1106 KI: 1108 **Leaf alcohol <ethyl acetal->**
 CAS#: 28069-74-1 MF: C₁₀H₂₀O₂ FW: 172 MSD LIB#: 2116
 CN: 3-hexene, 1-(1-ethoxyethoxy)-, (3Z)-
 Synonyms: leaf acetal
 Source: Bedoukian Res.



RT: 11.77 AI: 1106 KI: 1108 **Maltol**
 CAS#: 118-71-8 MF: C₆H₆O₃ FW: 126 MSD LIB#: 1043
 CN: 4H-pyran-4-one, 3-hydroxy-2-methyl-
 Synonyms: larixic acid; palatone; veltol
 Source: ref. epd. ex Guy Collin; 8.20% *Trifolium pratense*, J. Ag. Food Chem.
 44:1827(1996); 5.30% *Trifolium repens*; 0.44% *Abies balsamea*



RT: 11.77 AI: 1106 KI: 1108 **Rose oxide <cis->**
 CAS#: 4610-11-1 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 729
 CN: 2H-pyran, tetrahydro-4-methyl-2-(2-methyl-1-propenyl)-, (2R,4S)-
 Synonyms: rose oxide levo
 Source: Geranium absolute ex Firmenich ex AF Thomas; 2.39% *Pelargonium graveolens*,
 Acta Pharm. Sinica 24:336(1989); 1.34% *Citrus sinensis* (leaf); 0.50% *Cistus ladaniferus*



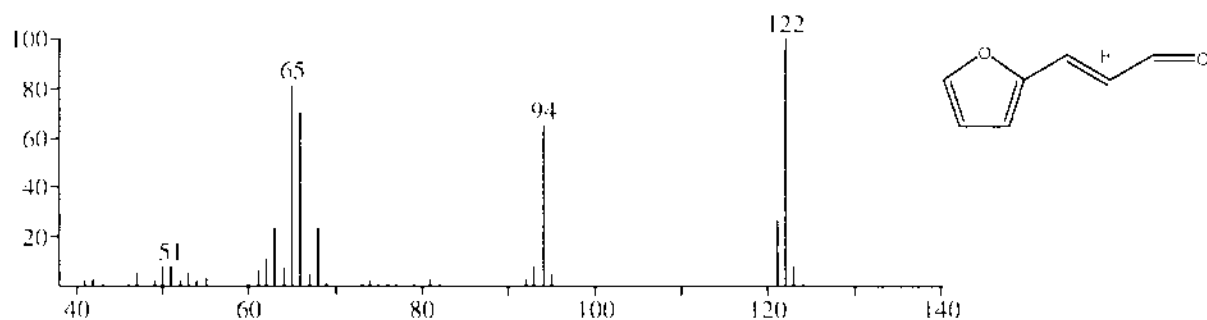
RT: 11.80 AI: 1107 KI: 1108 **Acrolein <(3E)-(2-furyl)->**

CAS#: 39511-08-5 MF: C₇H₆O₂ FW: 122 MSD LIB#: 2030

CN: 2-propenal, 3-(2-furyl)-, (2E)-

Synonyms: none

Source: Bedoukian Res. ex JJ Brophy



RT: 11.86 AI: 1108 KI: 1110 **Menthatriene <1,3,8-p->**

CAS#: 18368-95-1 MF: C₁₀H₁₄ FW: 134 MSD LIB#: 1236

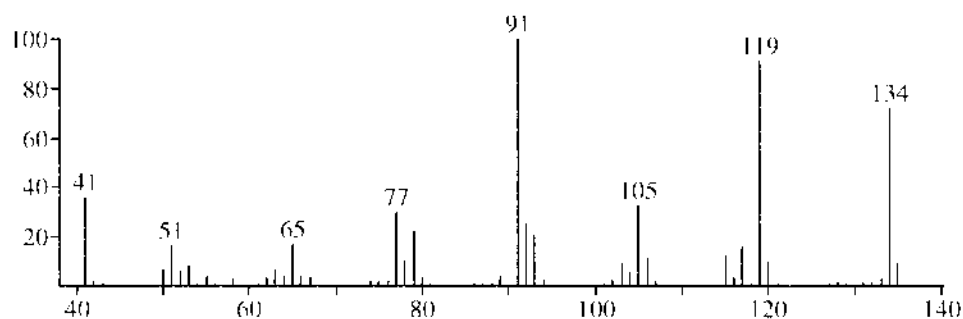
CN: 1,3-cyclohexadiene, 1-methyl-4-(1-methylethenyl)-

Synonyms: none

Source: distillation of fresh parsley, RP Adams #5440; 64.70% *Petroselinum crispum*,

J. Ag. Food Chem. 36:467(1988); 24.64% *Petroselinum sativum* (herb);

2.30% *Apium graveolens*



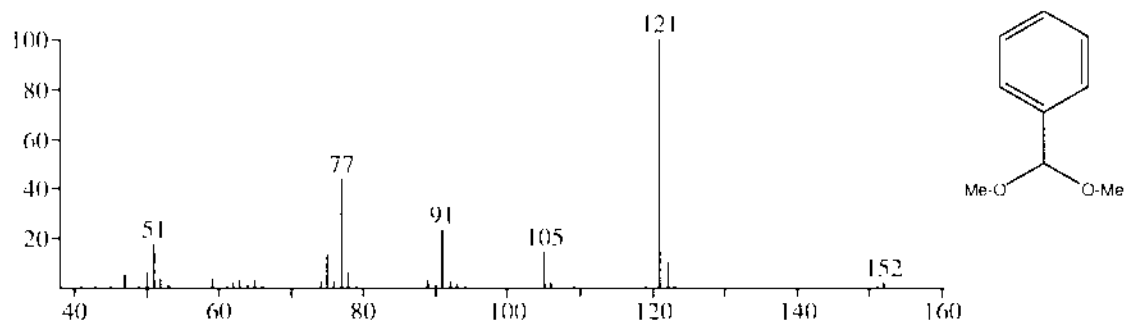
RT: 11.90 AI: 1109 KI: 1111 **Benzaldehyde, dimethyl acetal**

CAS#: 1125-88-8 MF: C₉H₁₂O₂ FW: 152 MSD LIB#: 268

CN: benzene, (dimethoxymethyl)-

Synonyms: phenyl dimethoxymethane; dimethoxyphenylmethane

Source: Bedoukian Res. ex Art Tucker



RT: 11.95 AI: 1110 KI: 1112 **Octen-3-yl acetate <1->**

CAS#: 2442-10-6 MF: C₁₀H₁₈O₂ FW: 170 MSD LIB#: 1206

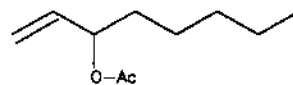
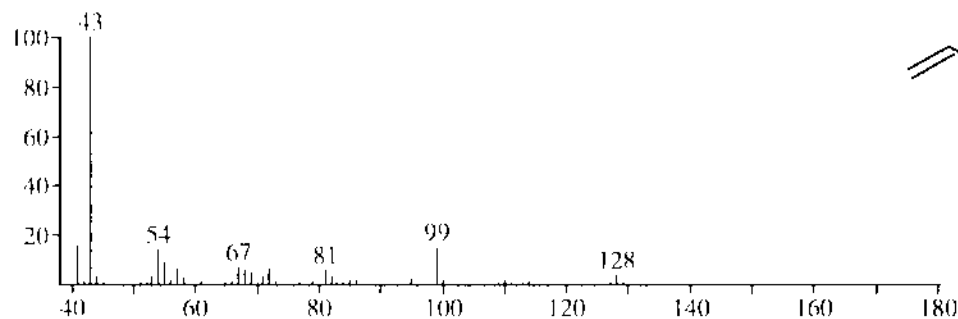
CN: 1-octen-3-ol, acetate

Synonyms: octen-3-ol acetate, 1-

Source: ref. epd. ex Art Tucker; 3.00% *Lavandula angustifolia* (Nana Alba),

Perf. & Flav. 9:49(1984); 1.60% *Lavandula angustifolia* (Twickel Purple);

0.63% *Lepechinia urbanii*



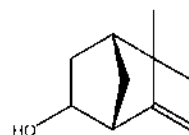
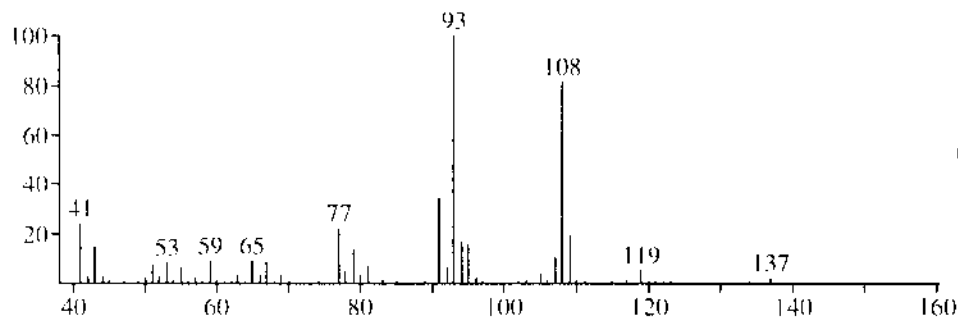
RT: 11.98 AI: 1111 KI: 1113 **Camphenol <6->**

CAS#: 3570-04-5 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 618

CN: bicyclo[2.2.1]heptan-2-ol, 5,5-dimethyl-6-methylene-

Synonyms: nojigikuol; 6-hydroxycamphene

Source: *Diplotaenia cachrydifoliae* ex K. Harkiss



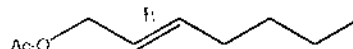
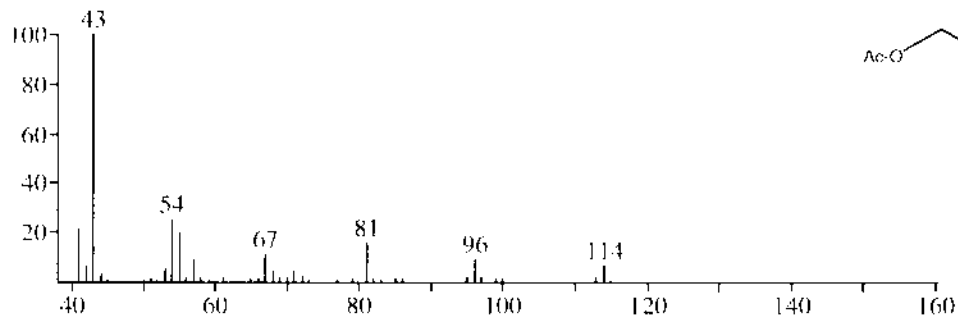
RT: 11.99 AI: 1111 KI: 1113 **Heptenyl acetate <(2E)->**

CAS#: 16939-73-4 MF: C₉H₁₆O₂ FW: 156 MSD LIB#: 793

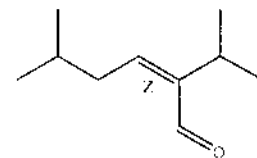
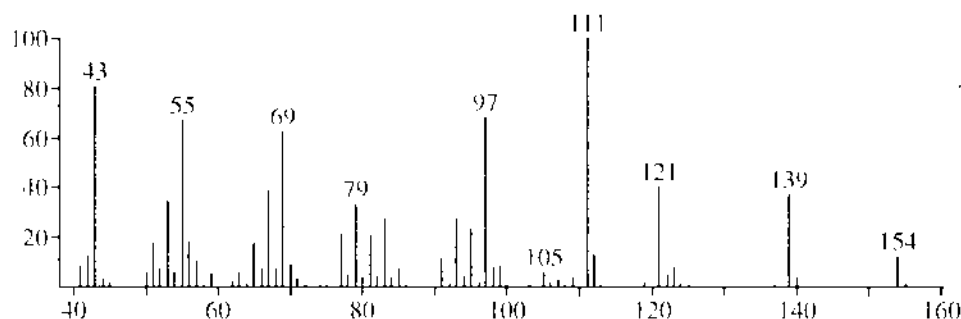
CN: 2-hepten-1-ol, acetate, (E)-

Synonyms: trans-2-heptenyl acetate

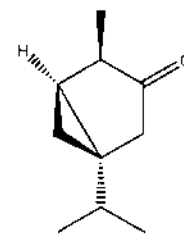
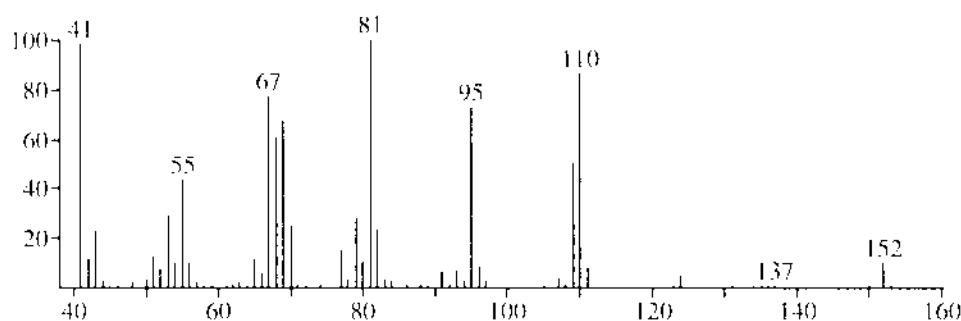
Source: Bedoukian Res. ex Art Tucker



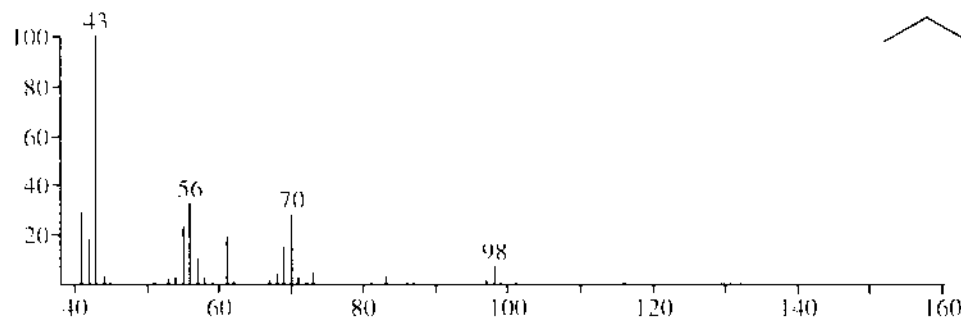
RT: 12.00 AE: 1112 KE: 1114 **Isopropyl-5-methyl-(2Z)-hexenal <2->**
 CAS#: 69104-97-8 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1627
 CN: 2-hexenal, 5-methyl-2-(1-methylethyl)-, (Z)
 Synonyms: none
 Source: Aldrich Chem.



RT: 12.00 AE: 1112 KE: 1114 **Thujone <trans->**
 CAS#: 471-15-8 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1496
 CN: bicyclo(3.1.0)hexan-3-one, 4-methyl-1-(1-methylethyl)-, (1S-(1 α ,4 β ,5 α)-
 Synonyms: β thujone
 Source: ref. epd. ex B. von Rudloff



RT: 12.02 AE: 1112 KE: 1114 **Heptyl acetate**
 CAS#: 112-06-1 MF: C₉H₁₈O₂ FW: 158 MSD LIB#: 780
 CN: acetic acid, heptyl ester
 Synonyms: heptyl ethanoate
 Source: acetylation of heptanol(6209); 0.10% *Narcissus poeticus* (absolute),
 1-EI 9:159(1994); 0.09% *Zingiber officinale*; 0.03% *Heracleum platytaenium*



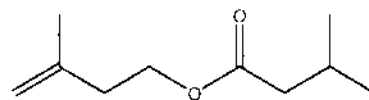
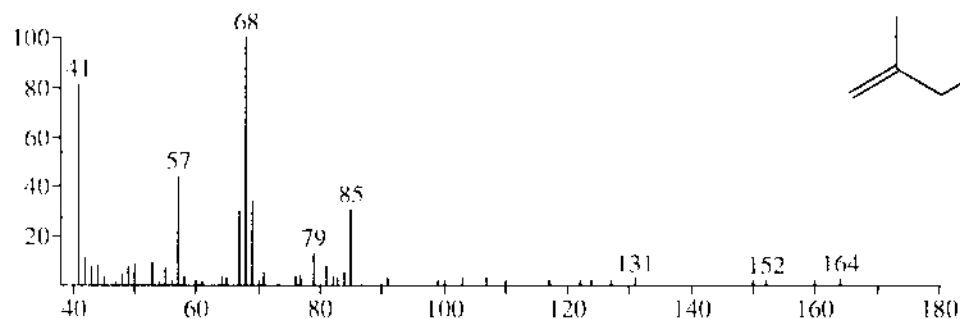
RT: 12.03 AI: 1112 KI: 1114 **Methyl butanoate, 3-methyl-3-butenyl <3->**

CAS#: 54410-94-5 MF: C₁₀H₁₈O₂ FW: 170 MSD LIB#: 144

CN: butanoic acid, 3-methyl-, 3-methyl-3-butenyl ester

Synonyms: none

Source: *Amyris diatrypa* oil, Dom. Rep. ex Tom Zanoni



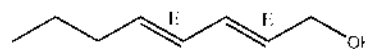
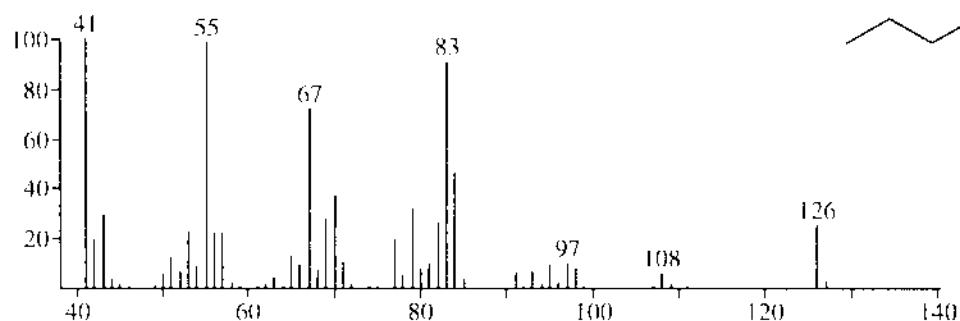
RT: 12.07 AI: 1113 KI: 1116 **Octadienol <(2E,4E)->**

CAS#: 18409-20-6 MF: C₈H₁₄O FW: 126 MSD LIB#: 2104

CN: 2,4-octadien-1-ol, (2E,4E)-

Synonyms: none

Source: Bedoukian Res.



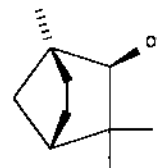
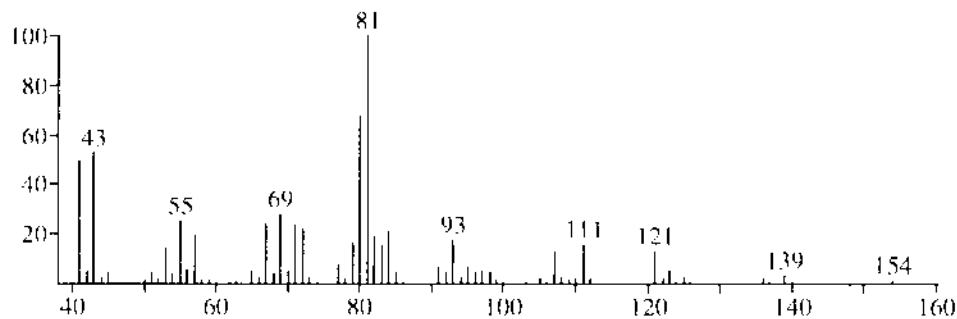
RT: 12.10 AI: 1114 KI: 1116 **Fenchol <endo->**

CAS#: 14575-74-7 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 712

CN: bicyclo[2.2.1]heptan-2-ol, 1,3,3-trimethyl-, endo-

Synonyms: α-fenchol

Source: K & K Chem. ex H. Hills



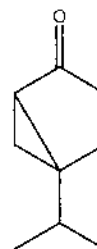
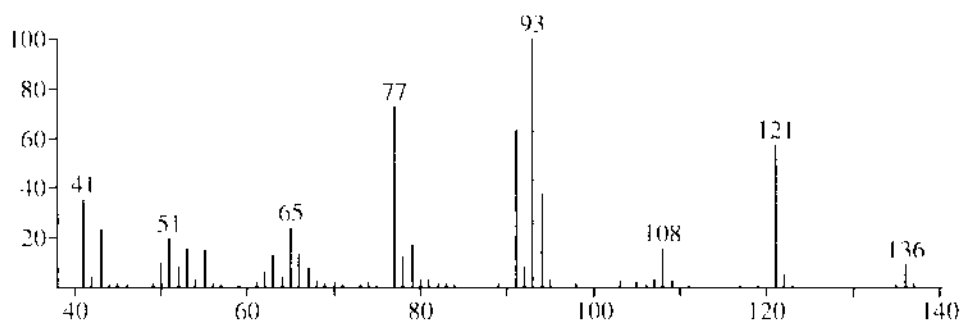
RT: 12.25 AI: 1117 KI: 1120 **Sabina ketone <dehydro>**

CAS#: 36262-12-1 MF: C₉H₁₂O FW: 136 MSD LIB#: 214

CN: bicyclo(3.1.0)hex-3-en-2-one, 5-(1-methylethyl)-

Synonyms: lebacone

Source: *Artemisia perscia* oil ex P. Weyerstahl



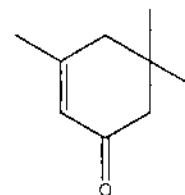
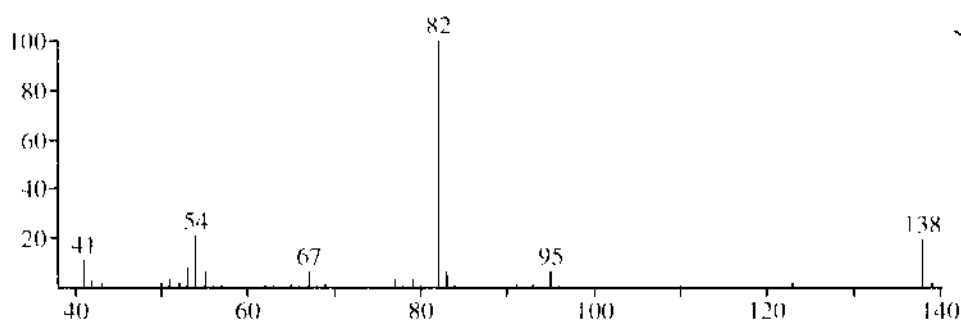
RT: 12.27 AI: 1118 KI: 1121 **Isophorone**

CAS#: 78-59-1 MF: C₉H₁₄O FW: 138 MSD LIB#: 968

CN: 2-cyclohexen-1-one, 3,5,5-trimethyl-

Synonyms: isoacetophorone

Source: ref. cpd. ex Z. Fleisher



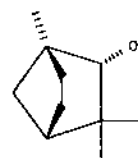
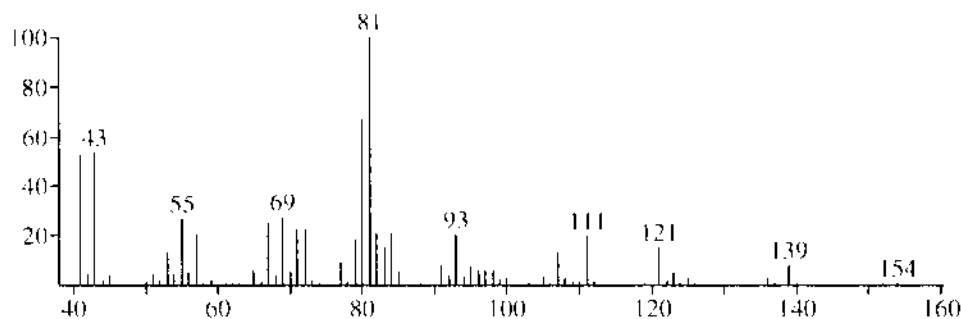
RT: 12.28 AI: 1118 KI: 1121 **Fenchol <exo>**

CAS#: 22627-95-8 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 713

CN: bicyclo(2.2.1)heptan-2-ol, 1,3,3-trimethyl-, exo-

Synonyms: β-fenchol

Source: K & K Chem. ex H. Hills



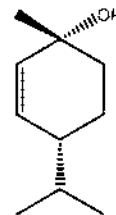
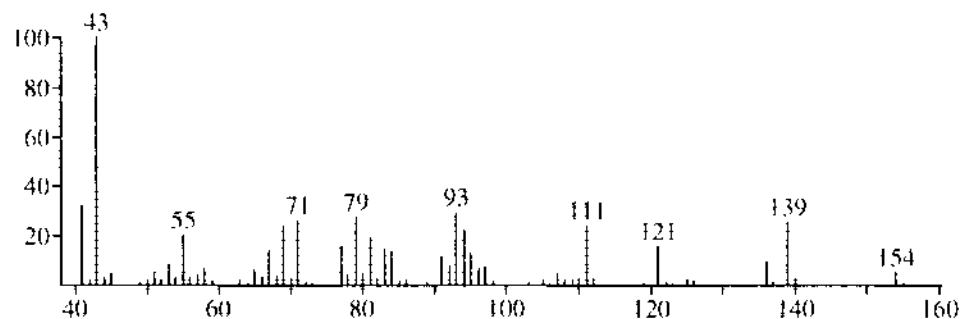
RT: 12.29 AE: 1118 KE: 1121 **Menth-2-en-1-ol <cis-p>**

CAS#: 29803-82-5 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1056

CN: 2-cyclohexen-1-ol, 1-methyl-4-(1-methylethyl)-, cis-

Synonyms: none

Source: distillation of Marjoram leaves (Schilling). RP Adams#5425



RT: 12.30 AE: 1119 KE: 1122 **Ethyl hexanoic acid <2>**

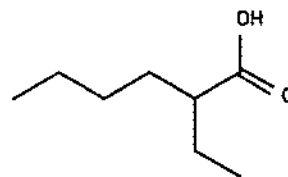
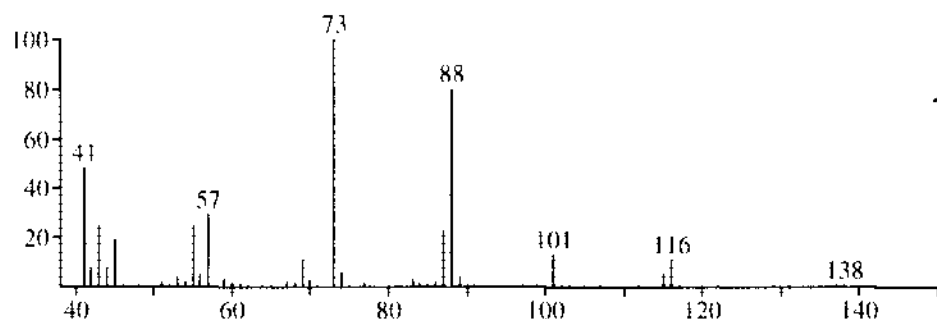
CAS#: 149-57-5 MF: C₈H₁₆O₂ FW: 144 MSD LIB#: 751

CN: hexanoic acid, 2-ethyl-

Synonyms: 2-ethyl caproic acid; butyl ethyl acetic acid

Source: Grob mixture for G. Alltech Assoc.; 0.10% *Lawsonia inermis* (flower), JEOR 7:425(1995);

0.02% *Hedychium coronarium*; 0.01% *Malus arnoldiana*



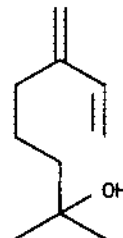
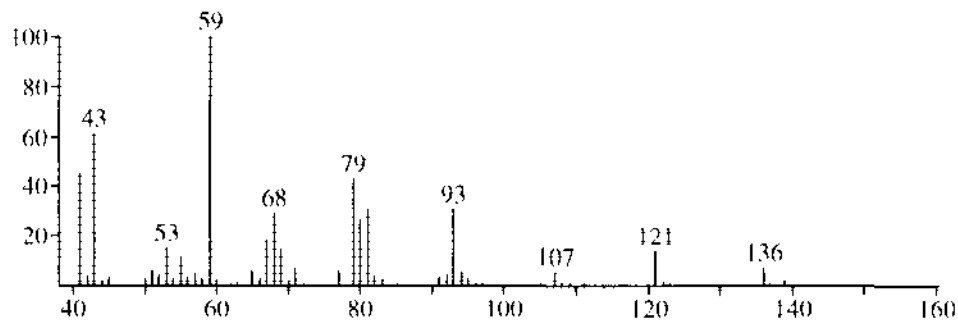
RT: 12.32 AE: 1119 KE: 1122 **Myrcenol**

CAS#: 543-39-5 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1118

CN: 7-octen-2-ol, 2-methyl-6-methylene-

Synonyms: none

Source: IFF ex Suzanne Kral; 1.40% *Elsholtzia blanda*, Proc. Intl. Cong. of Ess. Oils, New Delhi, India 4:49(1989); 1.12% *Hyssopus officinalis*; 0.70% *Viburnum orientale* (leaf)



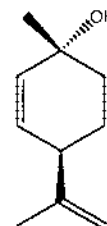
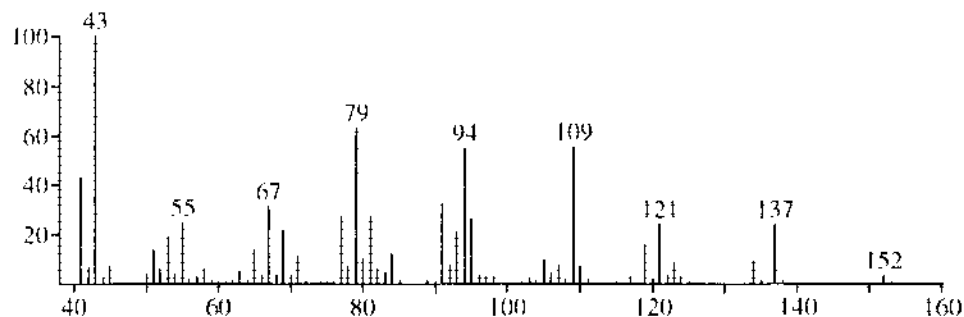
RT: 12.33 AI: 1119 KI: 1122 **Mentha-2,8-dien-1-ol <trans-p->**

CAS#: 7212-40-0 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1069

CN: 2-cyclohexen-1-ol, 1-methyl-4-(1-methylethenyl)-, trans-

Synonyms: none

Source: ref. cpd. ex Guy Collin



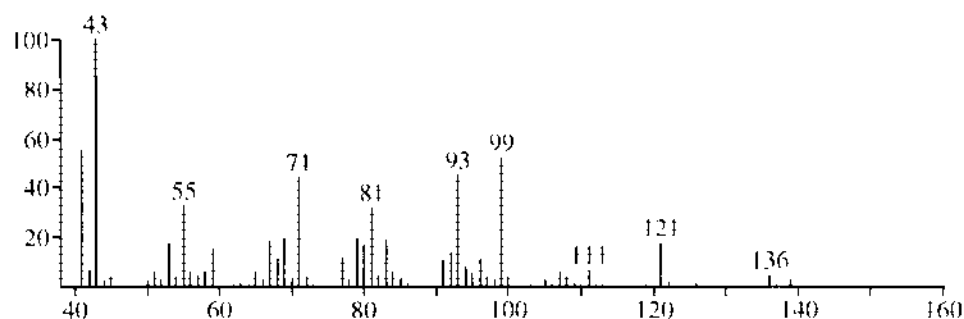
RT: 12.33 AI: 1119 KI: 1122 **Pinene hydrate <trans->**

CAS#: 4948-29-2 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1300

CN: bicyclo[3.1.1]heptan-2-ol, 2,6,6-trimethyl-, (1 α ,2 β ,5 α)-

Synonyms: pinan-2-ol <trans->

Source: ref. cpd. ex E. von Rudloff



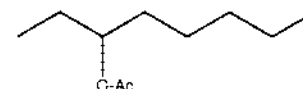
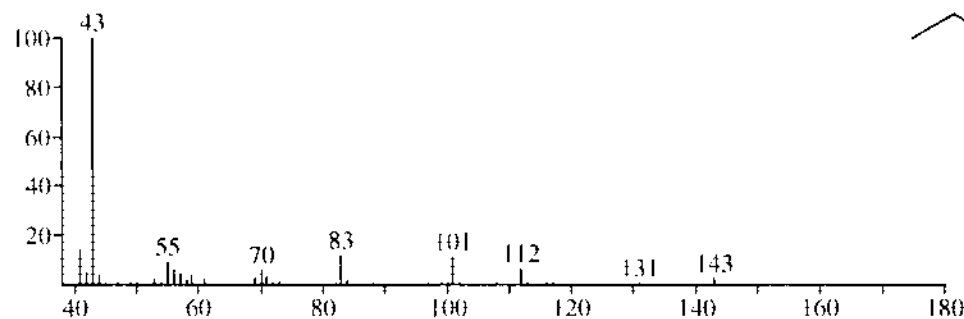
RT: 12.35 AI: 1120 KI: 1123 **Octanol acetate <3->**

CAS#: 4864-61-3 MF: C₁₀H₂₀O₂ FW: 172 MSD LIB#: 1254

CN: 3-octanol, acetate

Synonyms: none

Source: acetylation of peppermint oil(5498)



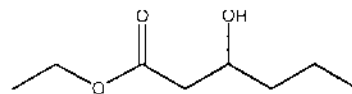
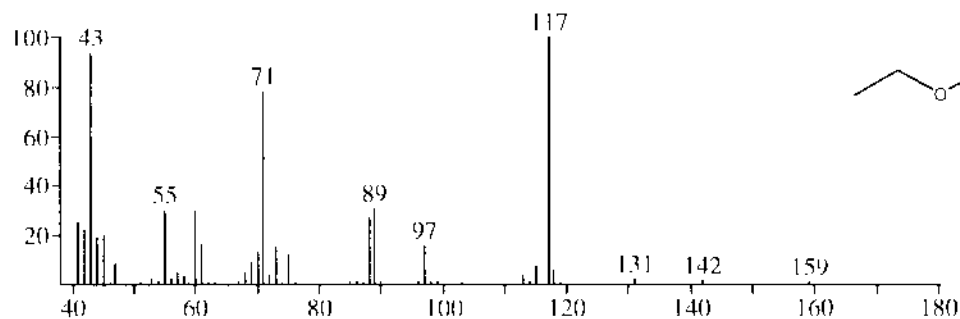
RT: 12.40 AI: 1121 KI: 1124 **Ethyl 3-hydroxy hexanoate**

CAS#: 2305-25-1 MF: C₈H₁₆O₃ FW: 160 MSD LIB#: 2146

CN: hexanoic acid, 3-hydroxy-, ethyl ester

Synonyms: caproic acid, β -hydroxy-, ethyl ester

Source: Bedoukian Res.



RT: 12.45 AI: 1122 KI: 1125 **Rose oxide <trans>**

CAS#: 5258-11-7 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 727

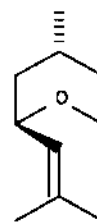
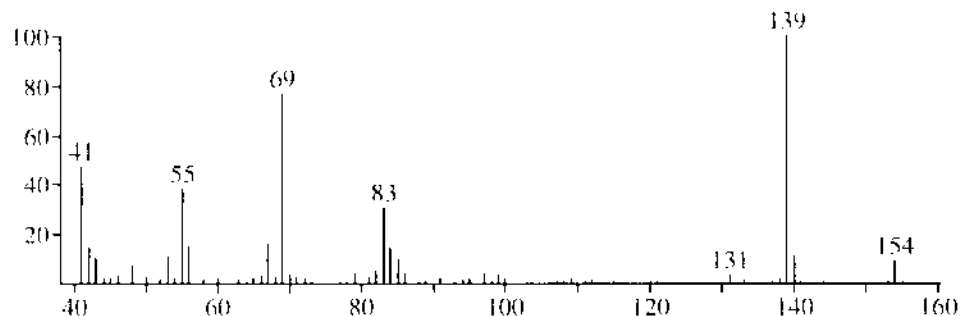
CN: 2H-pyran-, tetrahydro-4-methyl-2-(2-methyl-1-propenyl)-, (2R-trans)-

Synonyms: none

Source: Geranium absolute ex Firmenich ex AF Thomas; 3.54% *Pelargonium graveolens*.

p. 317, in: Flav. & Frag.: A World Persp., Lawrence, et al., Proc. 10th Intl. Cong. of Ess. Oils,

Elsevier, Amsterdam(1988); 0.82% *Cistus paradiisi*; 0.20% *Citrus sinensis*



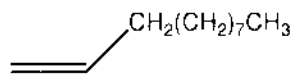
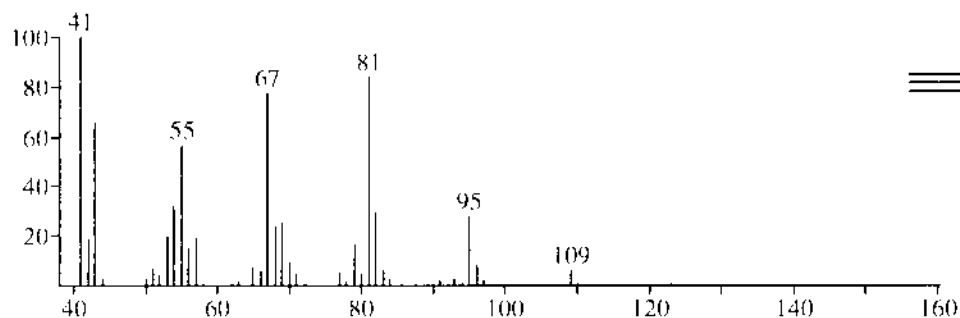
RT: 12.45 AI: 1122 KI: 1125 **Undecyne <1>**

CAS#: 2243-98-3 MF: C₁₁H₂₀ FW: 152 MSD LIB#: 1526

CN: 1-undecyne

Synonyms: none

Source: Pfaltz & Bauer ex Art Tucker



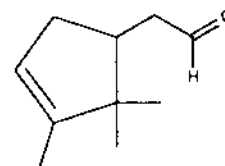
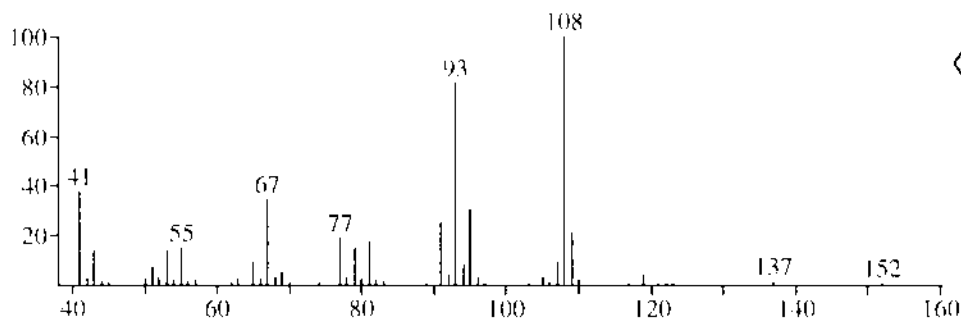
RT: 12.46 AI: 1122 KI: 1126 **Campholenal <α>**

CAS#: 4501-58-0 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 903

CN: 3-cyclopentene-1-acetaldehyde, 2,2,3-trimethyl-

Synonyms: α-campholenaldehyde

Source: *Juniperus gamboana* ex RP Adams #2574; common in *Juniperus* species and other conifers



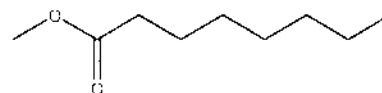
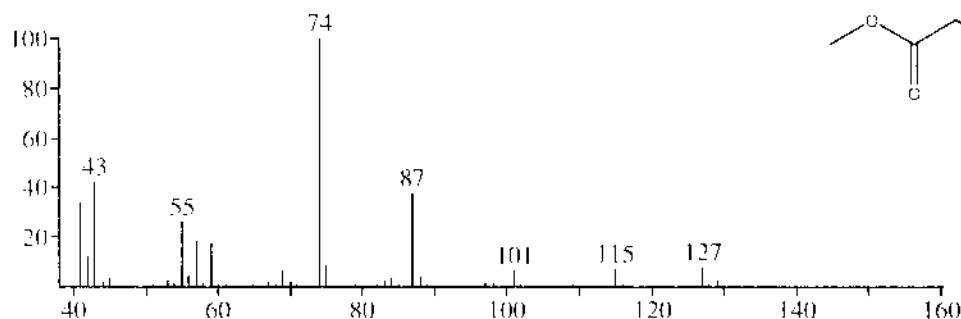
RT: 12.50 AI: 1123 KI: 1127 **Methyl octanoate**

CAS#: 111-11-5 MF: C₉H₁₈O₂ FW: 158 MSD LIB#: 1105

CN: octanoic acid, methyl ester

Synonyms: methyl caprylate

Source: Aldrich Chem.: 2.81% *Psidium guajava*, p. 221, in: Aromatic Plants and Essential Constituents, Peace Book Co., Hong Kong(1993); 2.17% *Schinus molle* (berry); 1.78% *Magnolia grandiflora*



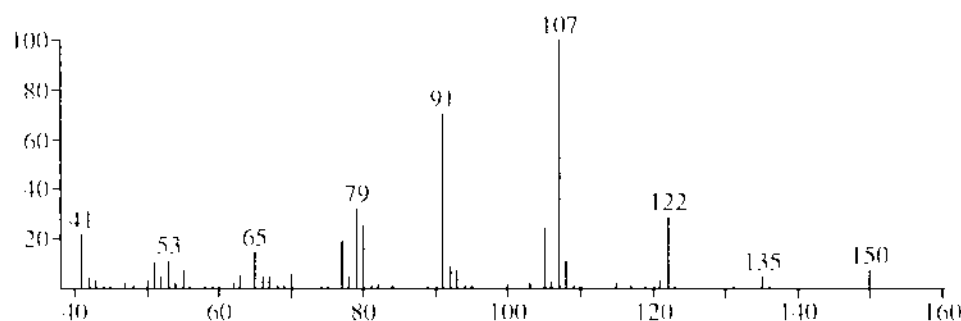
RT: 12.53 AI: 1124 KI: 1127 **Chrysanthenone**

CAS#: 473-06-3 MF: C₁₀H₁₄O FW: 150 MSD LIB#: 239

CN: bicyclo(3.1.1)hept-2-en-6-one, 2,7,7-trimethyl-

Synonyms: 2-pinen-7-one

Source: *Artemisia vestita* ex P. Weyerstahl; 6.84% *Artemisia judaica* (Egypt), JEOR 2:271(1990); 6.30% *Artemisia judaica* (Israel); 4.20% *Artemisia herba*



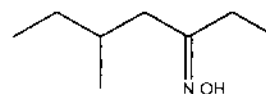
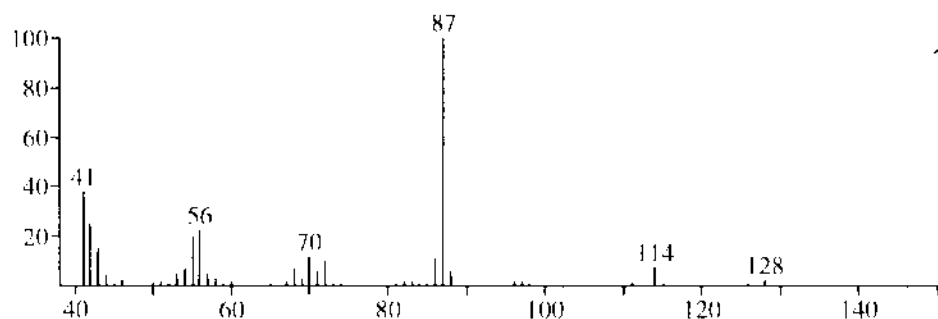
RT: 12.54 AI: 1124 KI: 1128 **Stemone**

CAS#: 22457-23-4 MF: C₈H₁₇NO FW: 143 MSD LIB#: 1434

CN: 3-heptanone, 5-methyl-, oxime

Synonyms: 5-methyl-3-heptanone oxime

Source: Givaudan ex Jian-Qin Co. Kunming



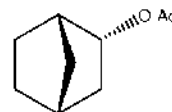
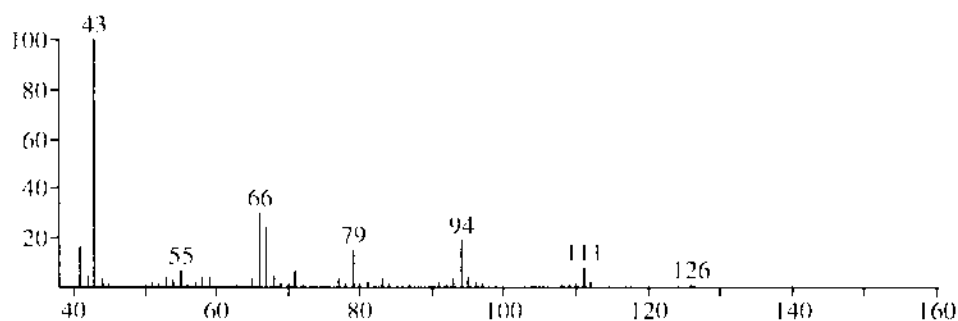
RT: 12.55 AI: 1124 KI: 1128 **Norborneol acetate <endo-2->**

CAS#: 54325-11-0 MF: C₉H₁₄O₂ FW: 154 MSD LIB#: 1180

CN: bicyclo(2.2.1)heptan-2-ol, acetate, endo-

Synonyms: none

Source: acetylation of norborneol, <endo-2->(6300)



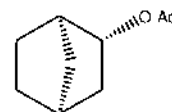
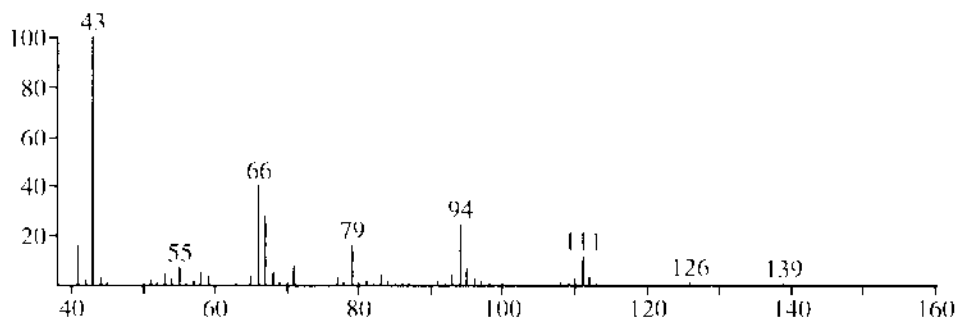
RT: 12.59 AI: 1125 KI: 1129 **Norborneol acetate <exo-2->**

CAS#: 54325-10-9 MF: C₉H₁₄O₂ FW: 154 MSD LIB#: 1189

CN: bicyclo(2.2.1)heptan-2-ol, acetate, exo-

Synonyms: none

Source: acetylation of norborneol (6277)



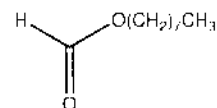
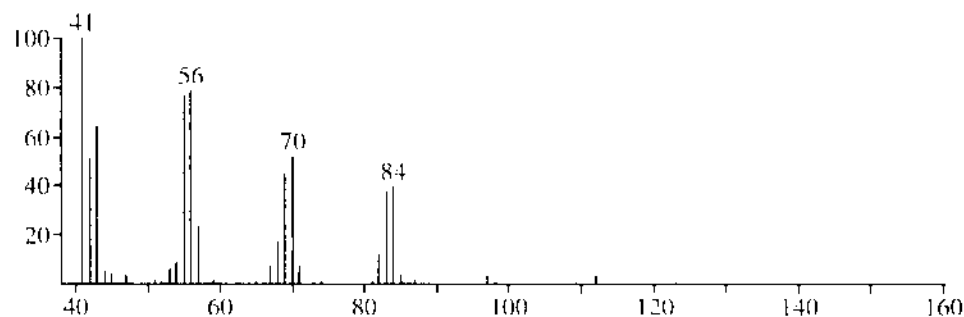
RT: 12.64 AI: 1127 KI: 1130 **Octyl formate**

CAS#: 112-32-3 MF: C₉H₁₈O₂ FW: 158 MSD LIB#: 1210

CN: formic acid, octyl ester

Synonyms: none

Source: Pfaltz & Bauer ex Art Tucker; 0.81% *Dendranthema vestitum* (flower absolute), p. 95, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong (1993)



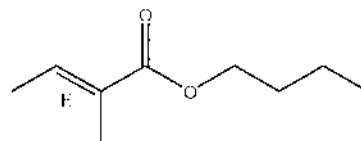
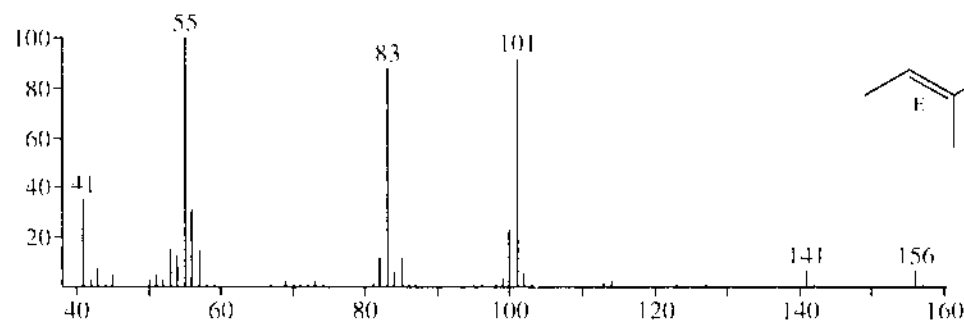
RT: 12.68 AI: 1127 KI: 1131 **Butyl tiglate**

CAS#: 7785-66-2 MF: C₉H₁₆O₂ FW: 156 MSD LIB#: 2143

CN: 2-butenoic acid, 2-methyl-, butyl ester, (2E)-

Synonyms: butyl α-methylcrotonate

Source: Bedoukian Res.; 0.15% *Lavandula x hybrida*, p. 365, in: Lavende et Lavandin, R. Naef, Rivista Ital. EPPOS (1992); 0.12% *Anthemix nobilis*; 0.11% *Anthemix angustifolia*



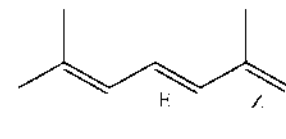
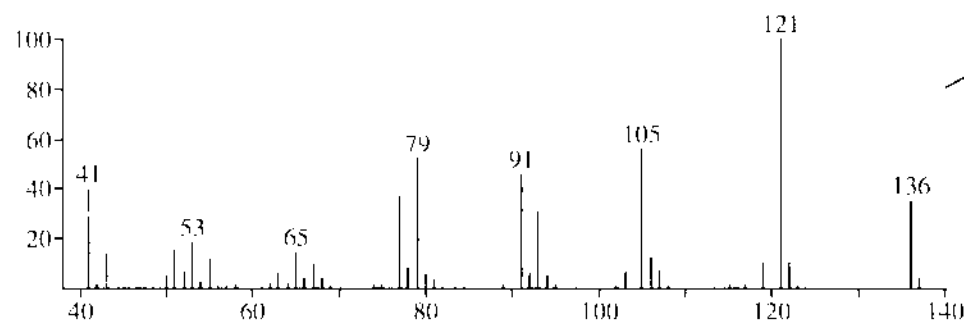
RT: 12.70 AI: 1128 KI: 1132 **Ocimene <allo>**

CAS#: 7216-56-0 MF: C₁₀H₁₆ FW: 136 MSD LIB#: 1199

CN: 2,4,6-octatriene, 2,6-dimethyl-, (E,Z)-

Synonyms: allocimene, 4-trans,6-cis-: allocimene, (4E,6Z)-

Source: Fluka Chem.



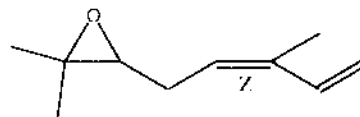
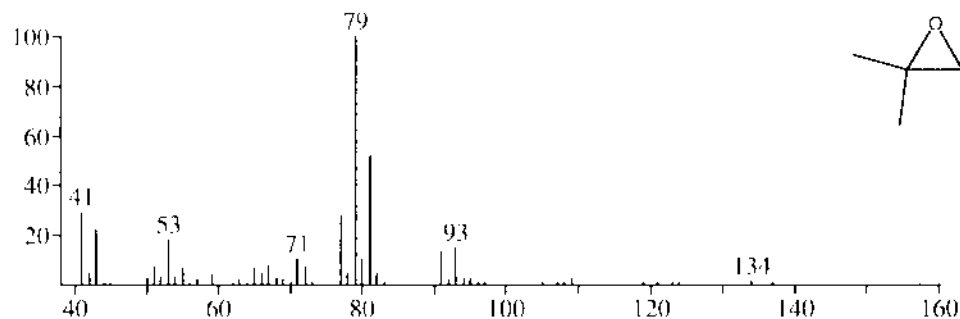
RT: 12.72 AL: 1128 KI: 1132 **Epoxy-ocimene <(Z)->**

CAS#: 33281-83-3 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1756

CN: oxirane, 2,2-dimethyl-3-[(2Z)-3-methyl-2,4-pentadienyl]-

Synonyms: epoxy-ocimene<cis->

Source: Wormwood cv. Powis Castle, California Gardens Nursery



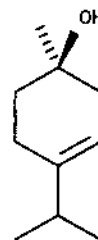
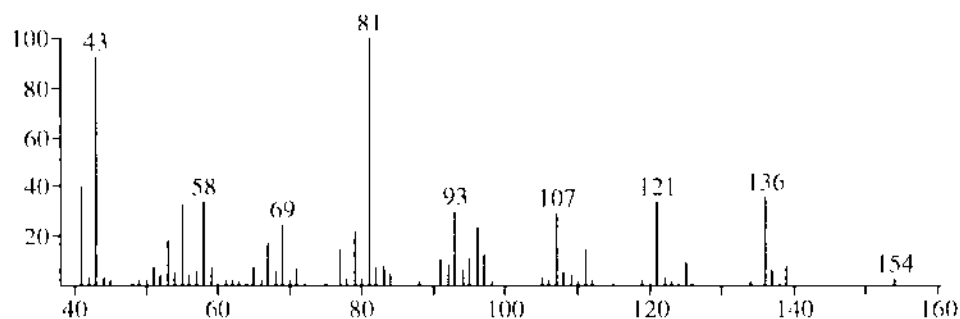
RT: 12.77 AL: 1130 KI: 1133 **Terpineol <1->**

CAS#: 586-82-3 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1002

CN: 1-methyl-4-(1-methylethyl)-3-cyclohexen-1-ol

Synonyms: p-menth-3-en-1-ol; 3-terpinen-1-ol

Source: West Indian lime oil, Lorann Oils



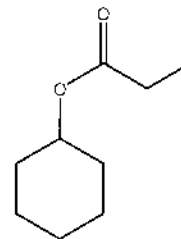
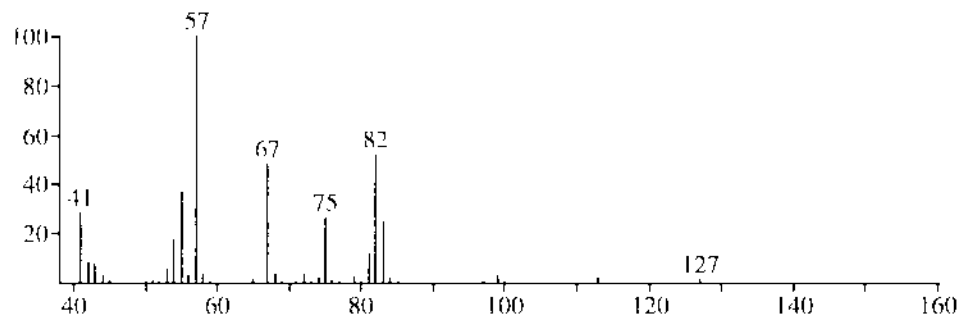
RT: 12.79 AL: 1130 KI: 1134 **Cyclohexyl propanoate**

CAS#: 6222-35-1 MF: C₉H₁₆O₂ FW: 156 MSD LIB#: 534

CN: propanoic acid, cyclohexyl ester

Synonyms: cyclohexyl propionate

Source: Bedoukian Res. ex Art Tucker



RT: 12.82 AI: 1131 KI: 1135 **Linalool <dihydro->**

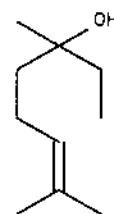
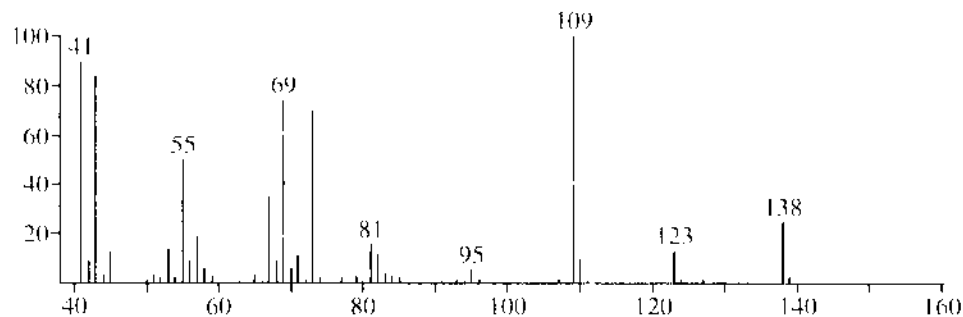
CAS#: 18479-51-1 MF: C₁₀H₁₈O FW: 156 MSD LIB#: 1015

CN: 6-octen-3-ol, 3,7-dimethyl-

Synonyms: dihydrolinalool

Source: SCM Chem. ex E. von Rudloff: 1.50% *Citrus sinensis*, JEOR 7:105(1995);

0.59% *Annonum subulatum*; 0.10% *Eucalyptus globulus*



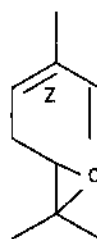
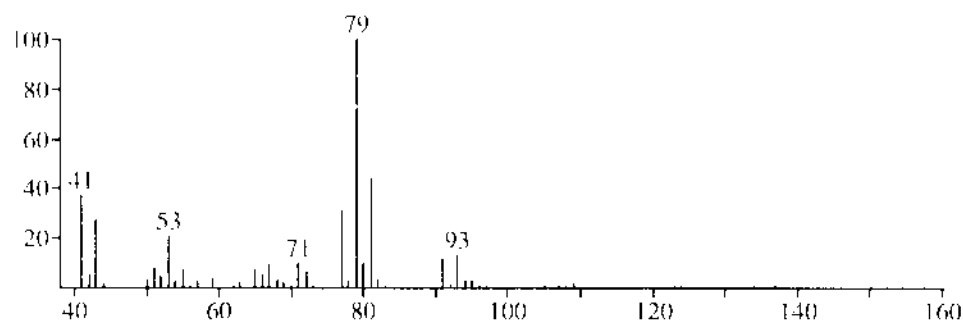
RT: 12.82 AI: 1131 KI: 1135 **Myroxide <(Z)->**

CAS#: 94607-48-4 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1119

CN: oxirane, 2,2-dimethyl-3-(3-methyl-2,4-pentadienyl)-, (Z)-

Synonyms: ocimene epoxide, β-

Source: Firmenich ex Jian-Qin Cu. Kunming



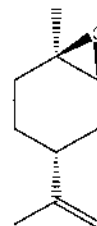
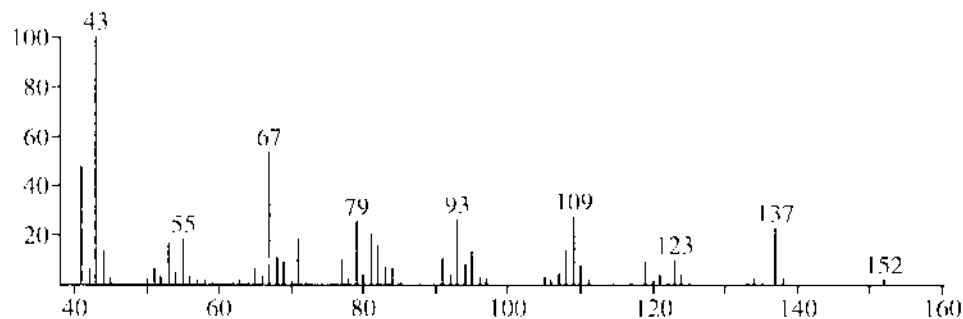
RT: 12.88 AI: 1132 KI: 1136 **Limonene oxide <cis-> (Me vs. IPP)**

CAS#: 13837-75-7 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1007

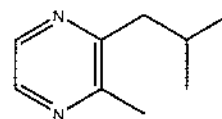
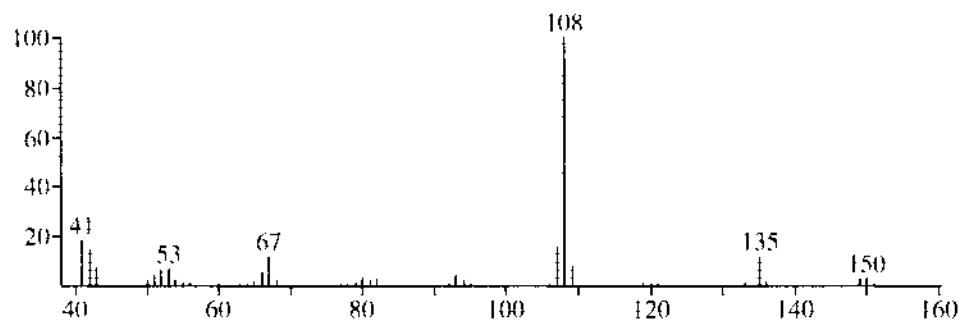
CN: 7-oxabicyclo[4.1.0]heptane, 1-methyl-4-(1-methylethenyl)-, (1α,4α,6α)-

Synonyms: p-menth-8-ene, 1,2-epoxy-, cis-; 1,2-epoxydipentene

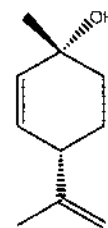
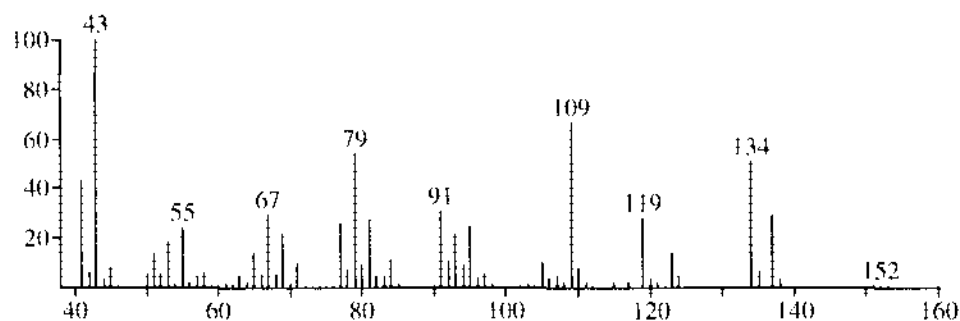
Source: Aldrich Chem.



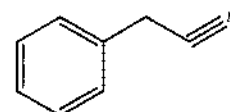
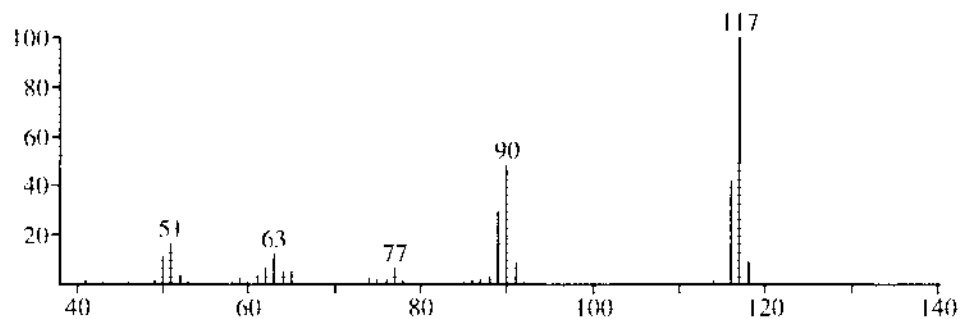
RT: 12.90 AE: 1133 KE: 1137 **Pyrazine <3-methyl-2-isobutyl->**
 CAS#: 13925-06-9 MF: C₉H₁₄N₂ FW: 150 MSD LIB#: 1353
 CN: pyrazine, 2-methyl-3-(2-methylpropyl)-
 Synonyms: none
 Source: Pyrazine Specialties ex Art Tucker



RT: 12.93 AE: 1133 KE: 1137 **Mentha-2,8-dien-1-ol <cis-p->**
 CAS#: 3886-78-0 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1070
 CN: 2-cyclohexen-1-ol, 1-methyl-4-(1-methylethenyl)-, cis-
 Synonyms: none
 Source: ref. epd. ex Guy Collin



RT: 12.94 AE: 1134 KE: 1138 **Benzeneacetonitrile**
 CAS#: 140-29-4 MF: C₈H₇N FW: 117 MSD LIB#: 1797
 CN: benzeneacetonitrile
 Synonyms: phenylacetonitrile, benzyl cyanide, α-tolunitrile
 Source: Mace oil ex Mario Tellez



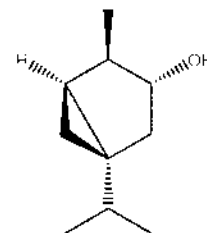
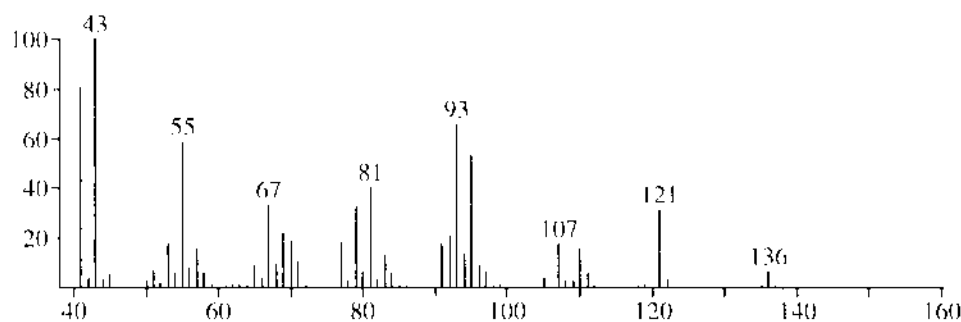
RT: 12.94 AE: 1134 KE: 1138 **Thujanol <iso-3>**

CAS#: 7712-79-0 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1488

CN: bicyclo(3.1.0)hexan-3-ol, 4-methyl-1-(1-methylethyl)-, (1S-(1 α ,3 α ,4 β ,5 α))-

Synonyms: isothujol

Source: ref. cpd. ex E. von Rudloff



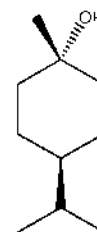
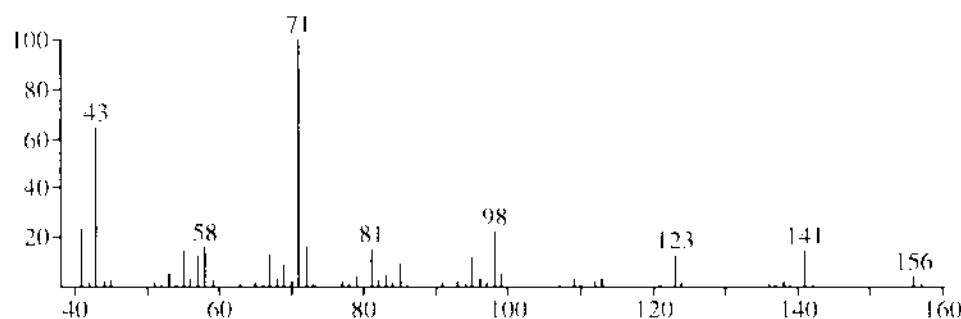
RT: 12.97 AE: 1134 KE: 1138 **Terpineol <trans-dihydro-β>**

CAS#: 3901-93-7 MF: C₁₀H₂₀O FW: 156 MSD LIB#: 1470

CN: cyclohexanol, 1-methyl-4-(1-methylethyl)-, trans-

Synonyms: p-menthan-1-ol, trans-

Source: SCM Chems. ex H Hills



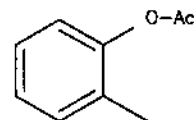
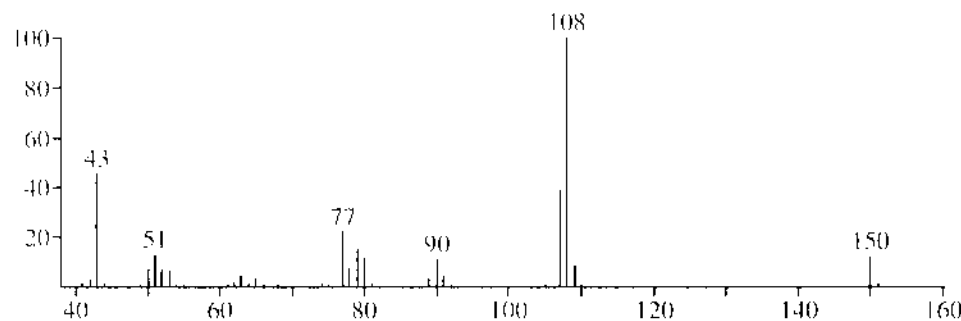
RT: 12.98 AE: 1134 KE: 1139 **Cresol acetate <o>**

CAS#: 533-18-6 MF: C₉H₁₀O₂ FW: 150 MSD LIB#: 482

CN: acetic acid, 2-methylphenyl ester

Synonyms: 2-acetoxytoluene; 2-methylphenyl acetate; o-tolyl acetate

Source: acetylation of o-cresol(6446)



RT: 12.99 AI: 1135 KI: 1139 **Pinocarveol <trans->**

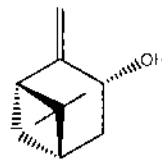
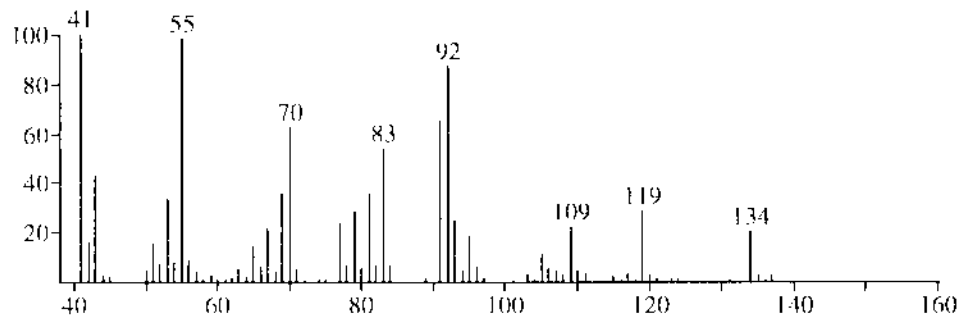
CAS#: 547-61-5 ME: C₁₀H₁₆O FW: 152 MSD LIB#: 1309

CN: bicyclo(3.1.1)heptan-3-ol, 6,6-dimethyl-2-methylene-, (1S-(1 α ,3 α ,5 α))

Synonyms: 2(10)-pinen-3-ol, (1S,3R,5S)-

Source: ref. epl. ex E. von Rudloff; 26.70% *Chenopodium ambrosioides*, JECOR 7:221(1995);

7.50% *Lavandula dentata*; 7.00% *Eucalyptus kirtsoniana*



RT: 13.02 AI: 1135 KI: 1140 **Nopinone**

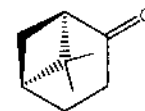
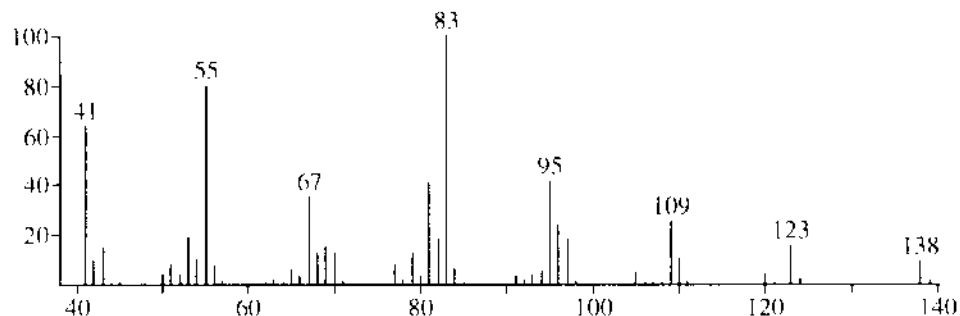
CAS#: 38651-65-9 ME: C₉H₁₄O FW: 138 MSD LIB#: 1173

CN: bicyclo(3.1.1)heptan-2-one, 6,6-dimethyl-

Synonyms: none

Source: Aldrich Chem.; 0.08% *Hyssopus officinalis*, JECOR 7:39(1995);

0.03% *Santolina chamaecyparissus*; 0.01% *Pinus pinaster*



RT: 13.04 AI: 1136 KI: 1140 **Menth-2-en-1-ol <trans-p->**

CAS#: 29803-81-4 ME: C₁₀H₁₈O FW: 154 MSD LIB#: 1057

CN: 2-cyclohexen-1-ol, 1-methyl-4-(1-methylethyl)-, trans-

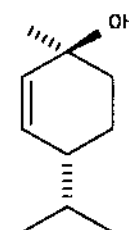
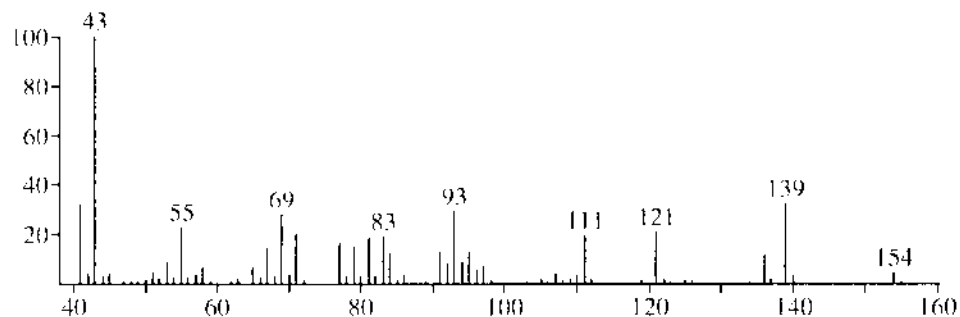
Synonyms: none

Source: distilled from Marjoram leaves (Schilling), RP Adams #5425;

22.80% *Cymbopogon jwarancusa*, p. 317, in: Flav. & Frag.: A World Persp.,

Lawrence, et al., Proc. 10th Int. Cong. of Ess. Oils, Elsevier, Amsterdam(1988);

1.70% *Zingiber cassumunar*; 1.10% *Artemisia moorcroftiana*



RT: 13.07 AI: 1137 KI: 1141 **Verbenol <cis->**

CAS#: 1845-30-3 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1551

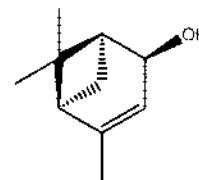
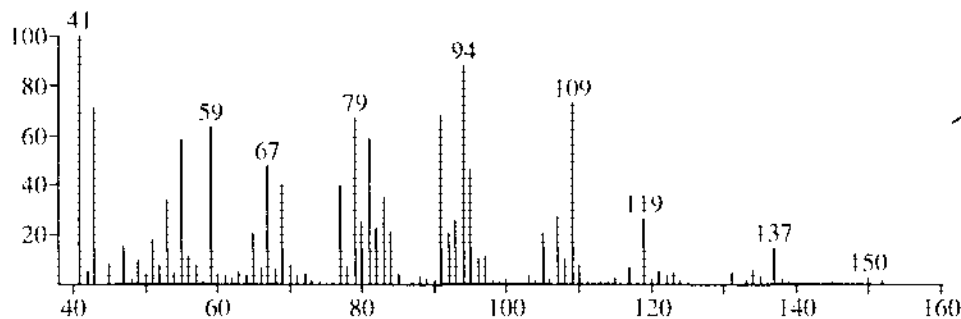
CN: bicyclo(3.1.1)hept-3-en-2-ol, 4,6,6-trimethyl-, (1 α ,2 β ,5 α)-

Synonyms: 2-pinen-4-ol, cis-

Source: rel. cpd. ex Rocky Mountain Forest Service Station, Ft. Collins, CO;

1.35% *Cleonia lusitanica*, JEOR 3:441(1991); 0.80% *Lavandula viridis*;

0.30% *Juniperus flaccida*



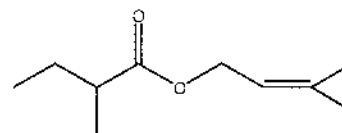
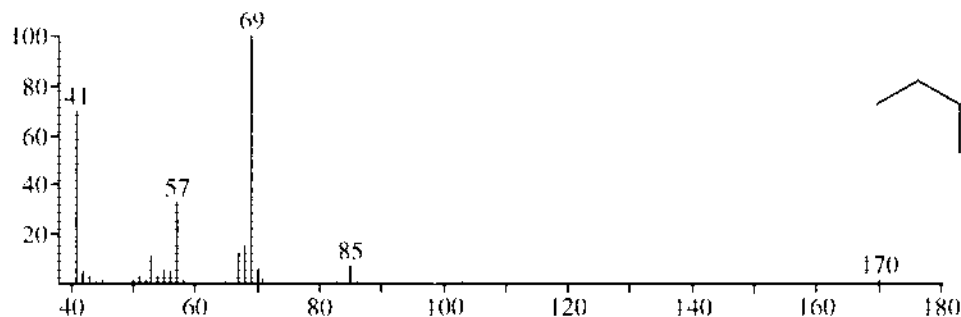
RT: 13.08 AI: 1137 KI: 1141 **Butanoate <3-methyl-2-butenyl 2-methyl->**

CAS#: 84254-80-8 MF: C₁₀H₁₈O₂ FW: 170 MSD LIB#: 1579

CN: butanoic acid, 2-methyl-, 3-methyl-2-butenyl ester

Synonyms:

Source: *Chenopodium botrys* ex Vasu Dev



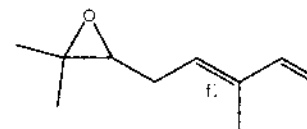
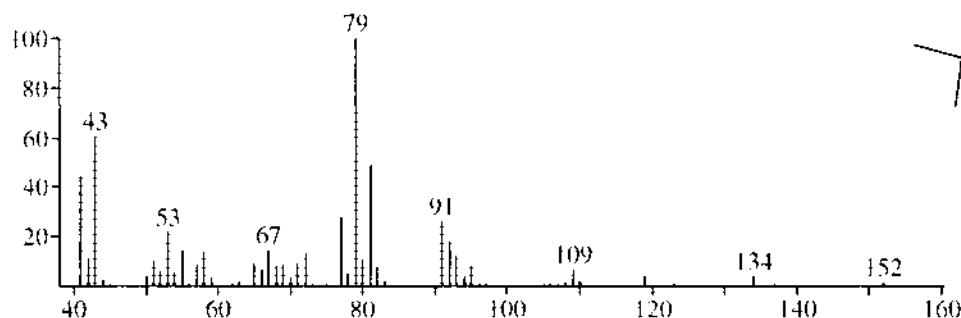
RT: 13.10 AI: 1137 KI: 1142 **Epoxy-ocimene <(E)->**

CAS#: 28977-57-3 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1757

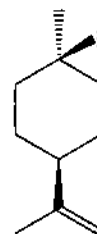
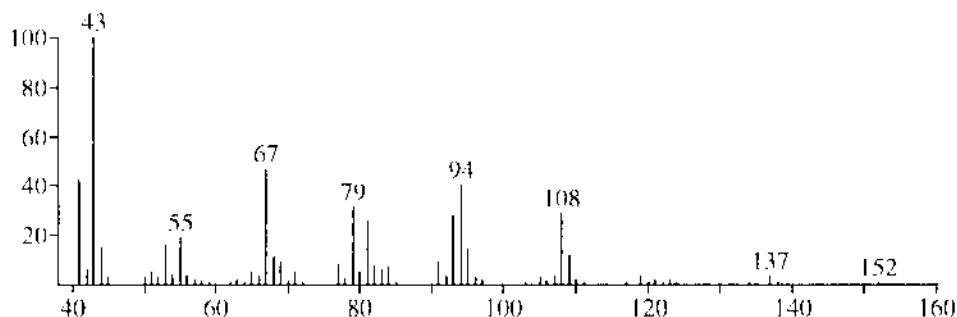
CN: oxirane, 2,2-dimethyl-3-[(2E)-3-methyl-2,4-pentadienyl]-

Synonyms: epoxy-ocimene <trans->

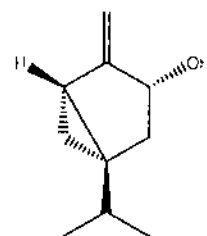
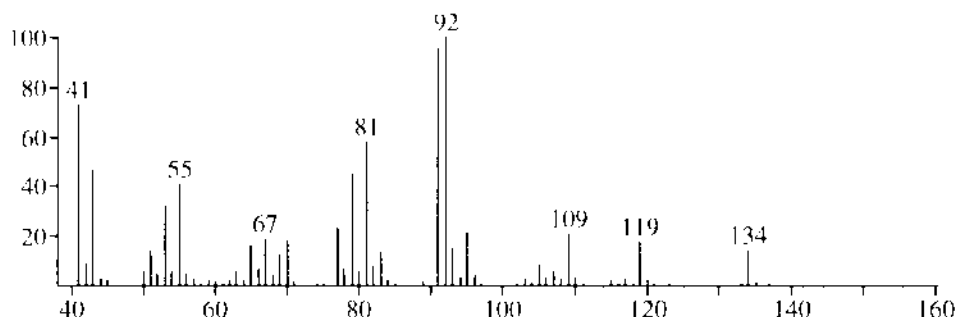
Source: Wormwood cv. Powis Castle ex California Gardens Nursery



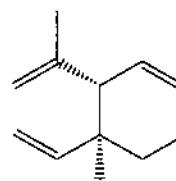
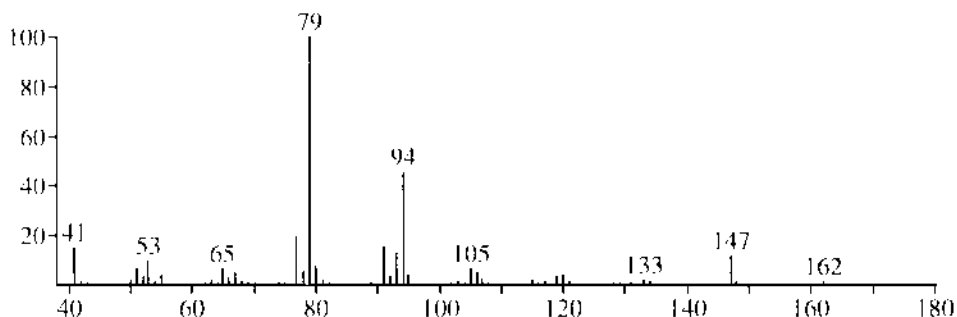
RT: 13.10 AI: 1137 KI: 1142 **Limonene oxide <trans> (Me vs. IPP)**
 CAS#: 4959-35-7 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1008
 CN: 7-oxabicyclo[4.1.0]heptane, 1-methyl-4-(1-methylethenyl)-, (1 α ,4 β ,6 α)-
 Synonyms: 1,2-epoxy-trans-p-menth-3-ene
 Source: Aldrich Chem.



RT: 13.10 AI: 1137 KI: 1142 **Sabinol <trans> (trans for OH vs. IPP)**
 CAS#: 29606-76-6 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1367
 CN: bicyclo[3.1.0]hexan-3-ol, 4-methylene-1-(1-methylethyl)-, (1S,3R,5S)-
 Synonyms: 4(10)-thujen-3-ol, cis-
 Source: ref. cpd. ex P. Weyerstahl; 14.73% *Artemisia kawakamii*, p. 279, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong(1993); 7.00% *Artemisia persica*; 3.21% *Artemisia absinthum*



RT: 13.15 AI: 1138 KI: 1143 **Geijerene**
 CAS#: 6902-73-4 MF: C₁₂H₁₈ FW: 162 MSD LIB#: 149
 CN: cyclohexene, 4-ethenyl-4-methyl-3-(1-methylethenyl)-, (3S,trans)-
 Synonyms: o-mentha-3,8-diene, 1-vinyl-(1S,2S)-
 Source: *Amyris diatrya* Dom. Rep. ex Tom Zanoni; 14.60% *Wiedemannia orientalis*, JFOR 8:543(1996); 5.00% *Skinumia laureola*; 3.62% *Pimpinella anisum*



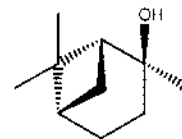
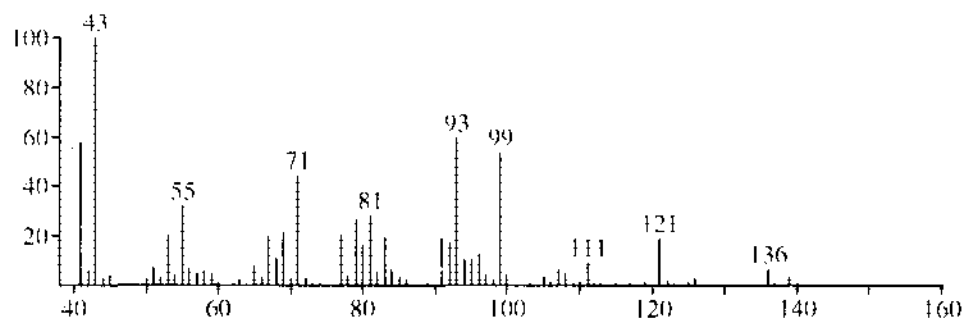
RT: 13.18 AI: 1139 KI: 1143 **Pinene hydrate <cis->**

CAS#: 4948-28-1 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1301

CN: bicyclo(3.1.1)heptan-2-ol, 2,6,6-trimethyl-, (1a,2a,5a)-

Synonyms: pinan-2-ol,cis

Source: ref. cpd. ex B. von Rudloff



RT: 13.19 AI: 1139 KI: 1144 **Tagetone <(E)->**

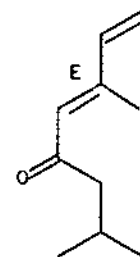
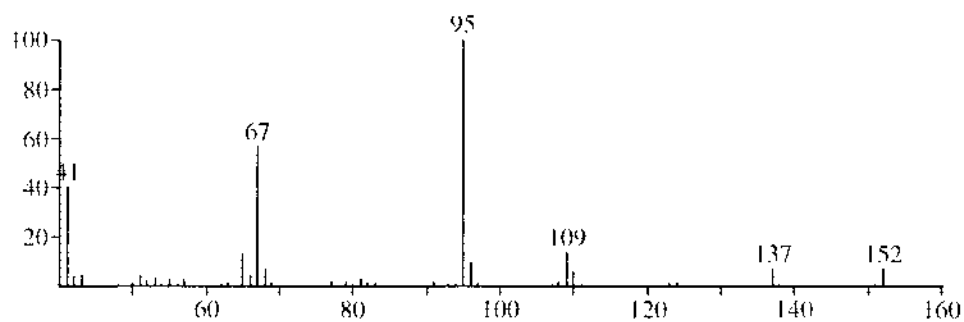
CAS#: 6752-80-3 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1456

CN: 5,7-octadien-4-one, 2,6-dimethyl-, (E)-

Synonyms: trans-tagetone

Source: *Tagetes minuta* oil ex B. Hethelyi, Hungary 40.29% *Tagetes riojana*,

JEOR 7:319(1995); 25.40% *Tagetes tenuifolia*; 16.10% *Tagetes lemmonii*



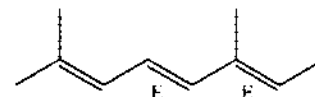
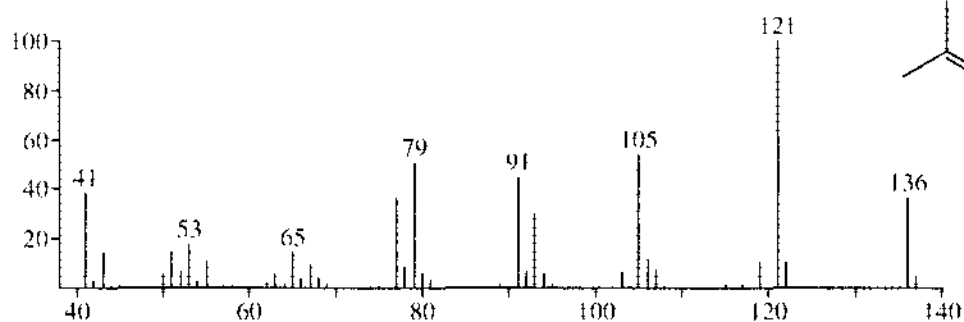
RT: 13.20 AI: 1140 KI: 1144 **Ocimene <neo-allo->**

CAS#: 3016-19-1 MF: C₁₀H₁₆ FW: 136 MSD LIB#: 1198

CN: 2,4,6-octatriene, 2,6-dimethyl-, (E,E)-

Synonyms: allocimene B; allocimene,(4E,6E)-

Source: Fluka Chem.



RT: 13.20 AI: 1140 KI: 1144 **Terpineol <cis-β>**

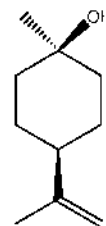
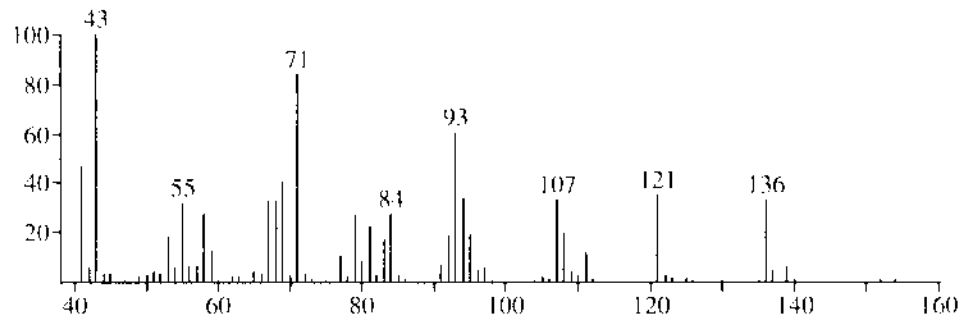
CAS#: 7299-41-4 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1003

CN: cyclohexanol, 1-methyl-4-(1-methylethenyl)-, cis-

Synonyms: none

Source: West Indian lime oil, Lorann Oils; 6.98% *Citrus paradisi*, JFOR 7:105(1995);

0.90% *Vitex agnus-castus*; 0.85% *Majorana hortensis*



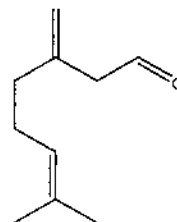
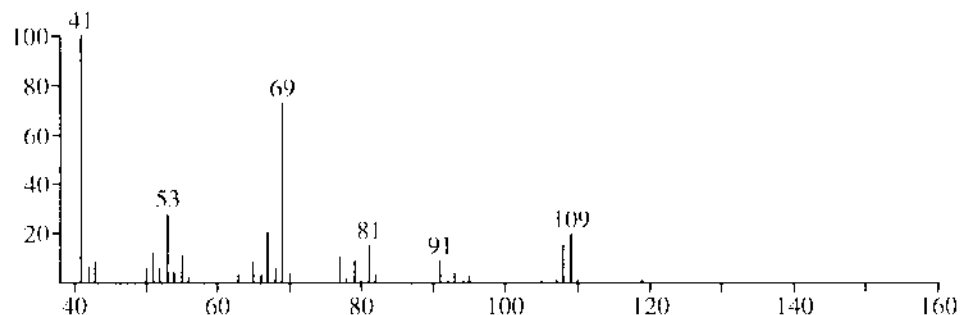
RT: 13.21 AI: 1140 KI: 1144 **Isocitral <exo>**

CAS#: 55050-40-3 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1726

CN: 6-octenal, 7-methyl-3-methylene-

Synonyms: none

Source: *Backhousia citriodora* oil ex. Ian Southwell



RT: 13.22 AI: 1140 KI: 1144 **Verbenol <trans>**

CAS#: 1820-09-3 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1539

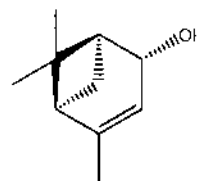
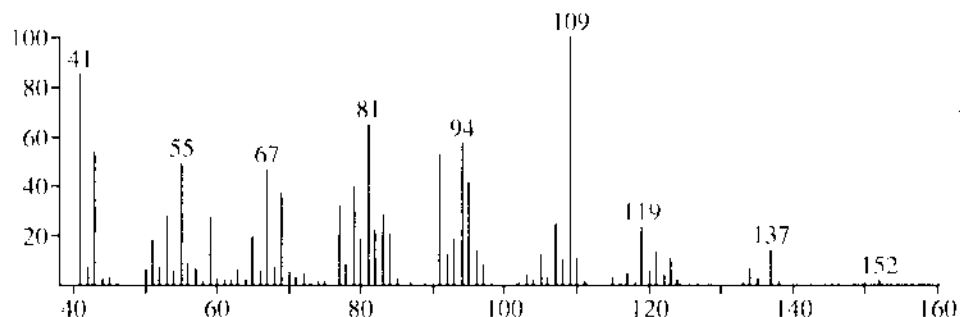
CN: bicyclo(3.1.1)hept-3-en-2-ol, 4,6,6-trimethyl-, (1α,2α,5α)-

Synonyms: 2-pinen-4-ol, trans-

Source: ref. cpd. ex Rocky Mountain Forest Service Station, Ft. Collins, CO;

7.60% *Artemisia verlotiorum*, FEJ 10:25(1995); 7.00% *Artemisia vulgaris*;

2.74% *Micromeria carminea*



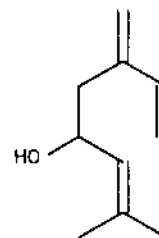
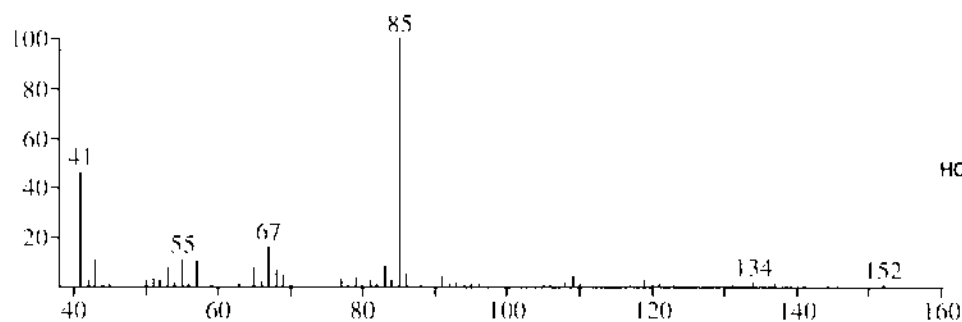
RT: 13.23 AI: 1140 KI: 1145 **Ipsdienol**

CAS#: 35628-00-3 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 848

CN: 2,7-octadien-4-ol, 2-methyl-6-methylene-

Synonyms: none

Source: ref. cpd. ex H. Hills



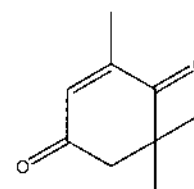
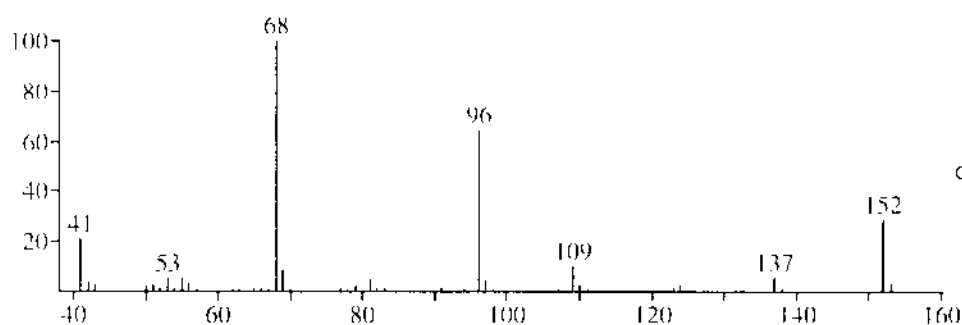
RT: 13.23 AI: 1140 KI: 1145 **Isophorone <4-keto->**

CAS#: 1125-21-9 MF: C₉H₁₂O₂ FW: 152 MSD LIB#: 969

CN: 2-cyclohexene-1,4-dione, 2,6,6-trimethyl-

Synonyms: ketoisophorone; oxophorone; oxopholone

Source: ref. cpd. ex Z. Fleisher



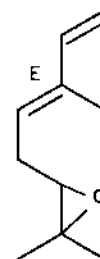
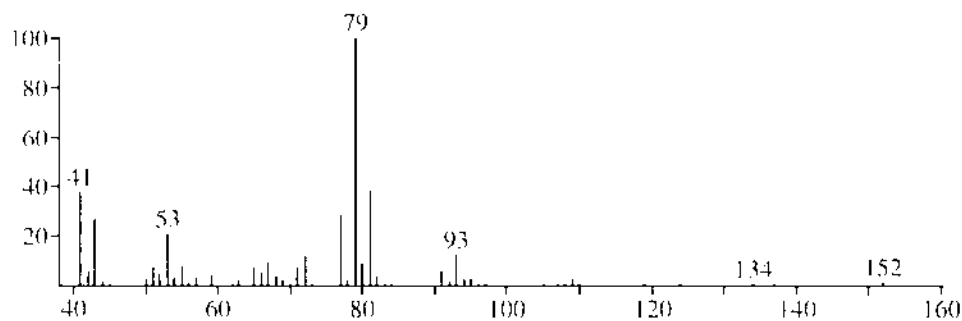
RT: 13.23 AI: 1140 KI: 1145 **Myroxide <(E)->**

CAS#: 94607-47-3 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1120

CN: oxirane, 2,2-dimethyl-3-(3-methyl-2,4-pentadienyl)-, (E)-

Synonyms: ocimene epoxide, (E)-β-

Source: Firmenich ex Jian-Qin Gu, Kunming



RT: 13.28 AI: 1141 KI: 1146 **Camphor**

CAS#: 76-22-2 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 896

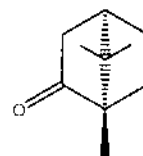
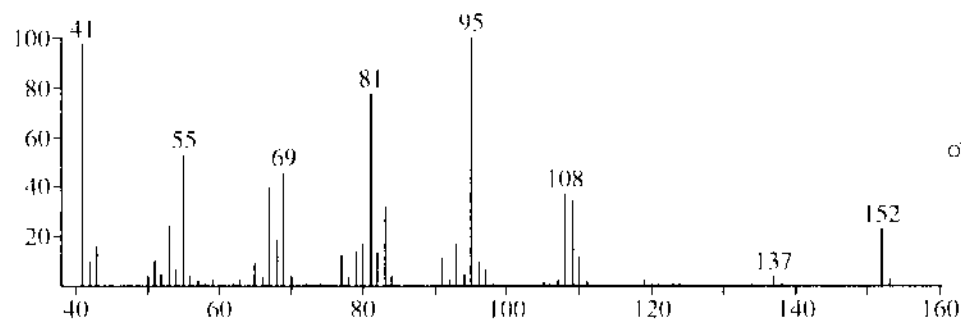
CN: trimethylbicyclo(2.2.1)heptan-2-one <1.7.7->

Synonyms: bornanone, 2-

Source: *Juniperus bermudiana* ex RP Adams #2554; common in conifers;

86.66% *Cinnamomum parthenoxylum*, p.31, in: Aromatic Plants & Essential Constituents,

Peace Book Co., Hong Kong(1993); 83.87% *Cinnamomum camphora*; 53.46% *Ocimum canum*



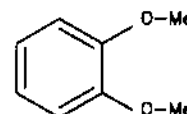
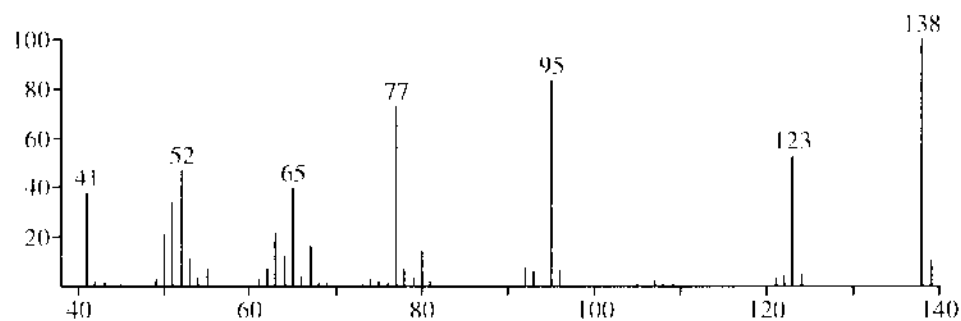
RT: 13.28 AI: 1141 KI: 1146 **Veratrole**

CAS#: 91-16-7 MF: C₈H₁₀O₂ FW: 138 MSD LIB#: 1538

CN: benzene, 1,2-dimethoxy-

Synonyms: catechol dimethyl ether; o-methoxyanisole; pyrocatechol dimethyl ether

Source: ref. cpd. ex E. von Rudloff



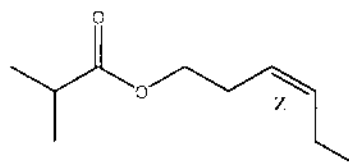
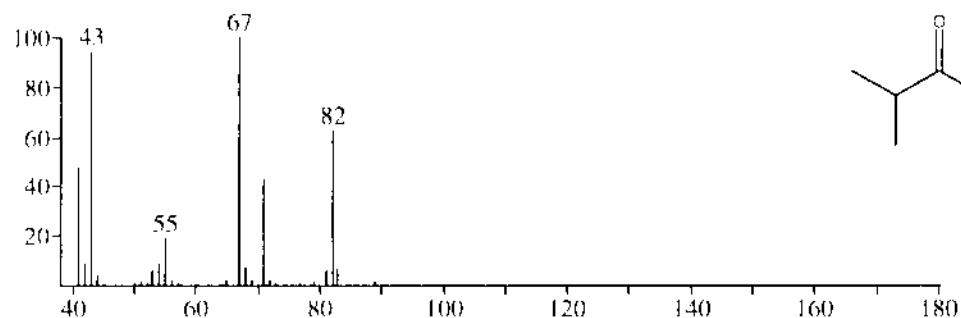
RT: 13.30 AI: 1142 KI: 1146 **Hexenyl isobutanoate <(3Z)->**

CAS#: 41519-23-7 MF: C₁₀H₁₈O₂ FW: 170 MSD LIB#: 811

CN: propanoic acid, 2-methyl-, 3-hexenyl ester, (Z)-

Synonyms: hexenyl isobutyrate <3Z->

Source: ref. cpd. ex Art Tucker



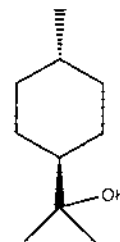
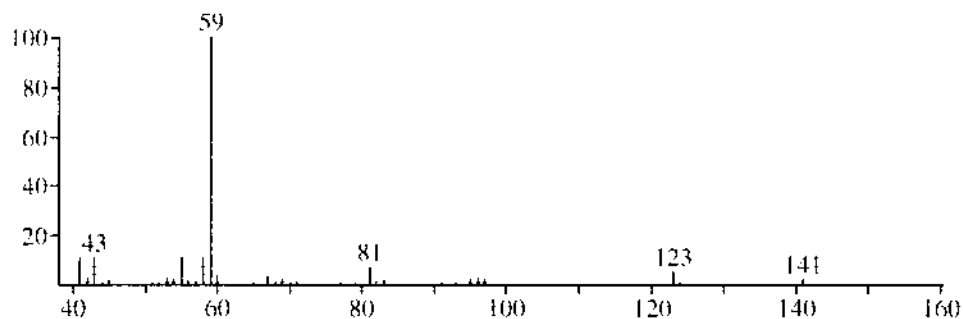
RT: 13.33 AI: 1143 KI: 1147 **Terpineol <trans-dihydro- α ->**

CAS#: 5114-00-1 MF: C₁₀H₂₀O FW: 156 MSD LIB#: 1472

CN: cyclohexanemethanol, $\alpha,\alpha,4$ -trimethyl-, trans-

Synonyms: p-menthan-8-ol, trans-

Source: ref. epd. ex E. von Rudloff



RT: 13.34 AI: 1143 KI: 1147 **Isoamyl angelate**

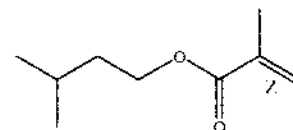
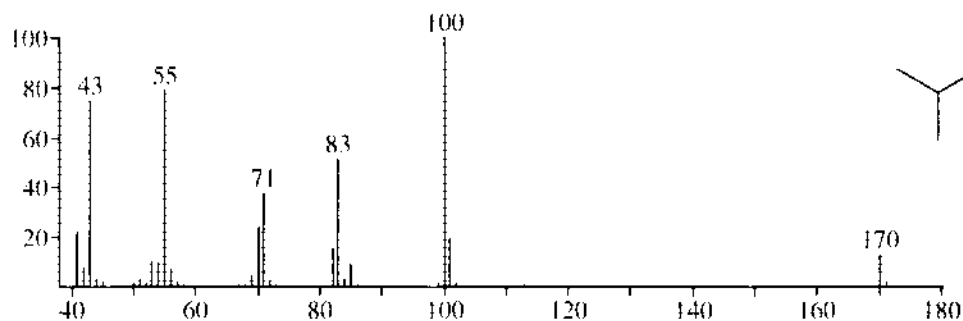
CAS#: 10482-55-0 MF: C₁₀H₁₈O₂ FW: 170 MSD LIB#: 1989

CN: 2-butenoic acid, 2-methyl-, 3-methylbutyl ester (Z)-

Synonyms: none

Source: Bedoukian Res. ex JJ Brophy: 17.90% *Anthemis nobilis* (Italy), J. HRC & CC 5:182(1982);

17.38% *Anthemis nobilis* (England); 8.39% *Anthemis nobilis* (Egypt)



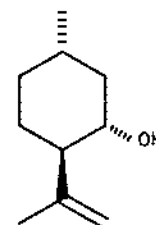
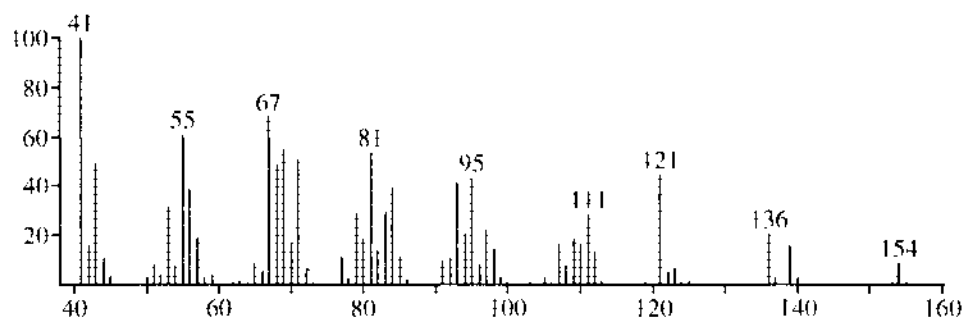
RT: 13.37 AI: 1144 KI: 1148 **Isopulegol <neo->**

CAS#: 59905-53-2 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 880

CN: cyclohexanol, 5-methyl-2-(1-methylethenyl)-, (1 α , 2 β , 5 α)-

Synonyms: none

Source: Aldrich Chem.



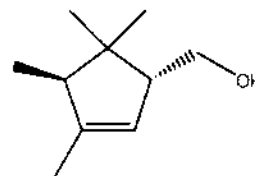
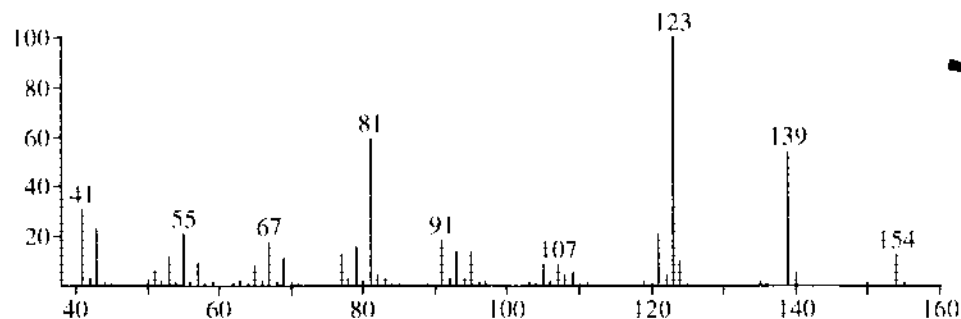
RT: 13.37 AI: 1144 KE: 1148 **Necrodol <trans-α>**

CAS#: 104104-38-3 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 2094

CN: 2-cyclopentene-1-methanol, 3,4,5,5-tetramethyl-, (1R-trans-)

Synonyms: none

Source: *Lavandula luisieri*, ex Nicolas Baldovini



RT: 13.38 AI: 1144 KE: 1148 **Heptalactone <γ>**

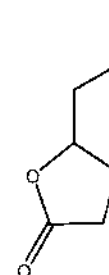
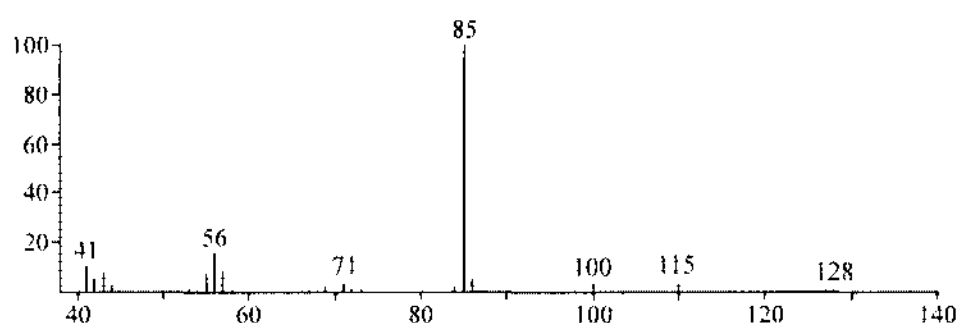
CAS#: 105-21-5 MF: C₇H₁₂O₂ FW: 128 MSD LIB#: 1915

CN: 2(3H)-furanone, dihydro-5-propyl-

Synonyms: 4-heptanolide

Source: ref. cpd. ex JJ Brophy; 0.15% *Zizyphus jujuba* (fruit), JEOR 8:323-326(1996);

0.04% *Citrus bergamia*



RT: 13.40 AI: 1144 KE: 1149 **Nonen-1-al <(2Z)->**

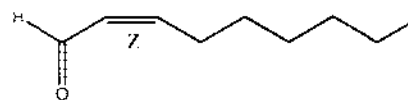
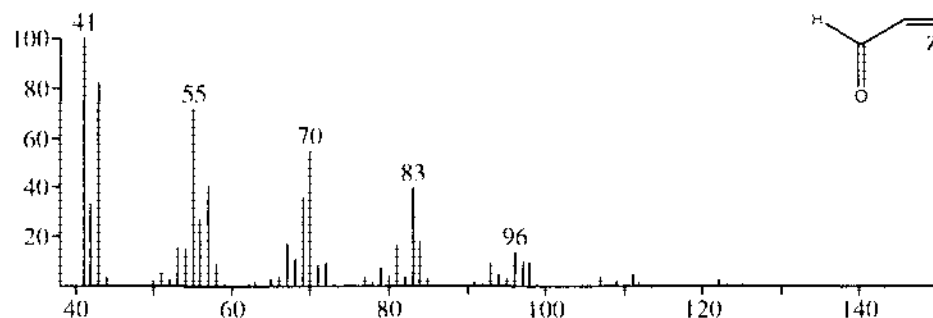
CAS#: 60784-31-8 MF: C₉H₁₆O FW: 140 MSD LIB#: 1169

CN: 2-nonenal, (Z)-

Synonyms: none

Source: Bedoukian Res. ex Art Tucker; 0.24% *Micromeria carminea*, JEOR 7:457(1995);

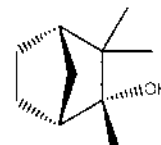
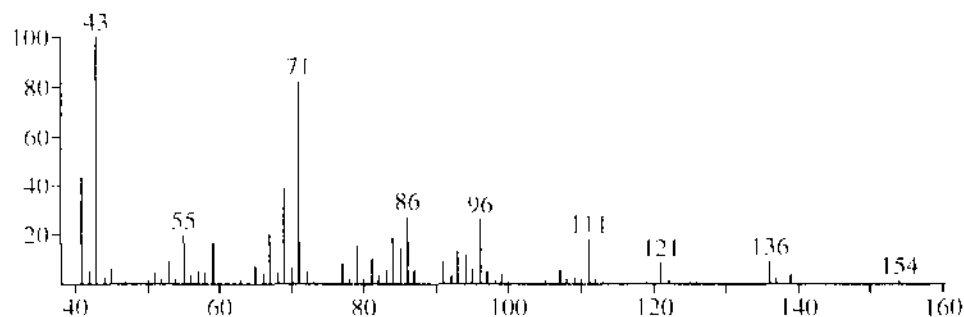
0.11% *Sideritis dichotoma*; 0.01% *Pistacia vera* (fruit hull)



RT: 13.43 AI: 1145 KI: 1149 **Camphene hydrate**CAS#: 64474-11-9 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 904

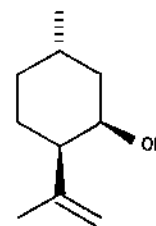
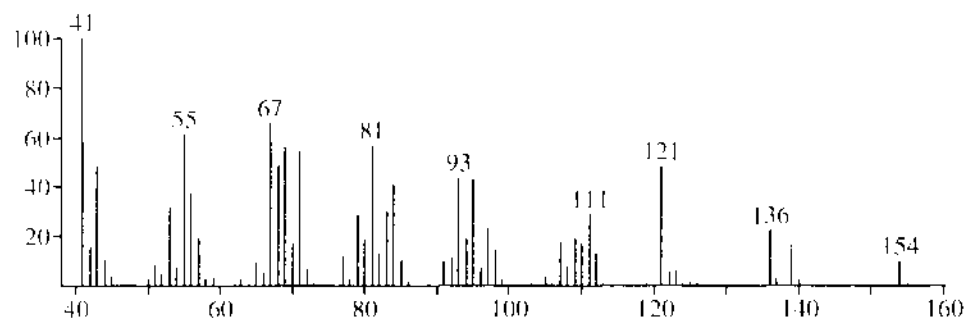
CN: bicyclo[2.2.1]heptan-2-ol, 2,3,3-trimethyl-, (1R-endo)-

Synonyms: 3-methylecamphenitol; 3-methylecamphenitol

Source: *Juniperus flaccida* var. *poblana* ex RP Adams #2578; common in conifers;2.31% *Artemisia annua* (leaf), JEOR 3:33 (1991); 2.10% *Curcuma aromatica*;2.09% *Artemisia annua* (flower)RT: 13.43 AI: 1145 KI: 1149 **Isopulegol**CAS#: 121468-66-4 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 879

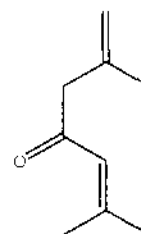
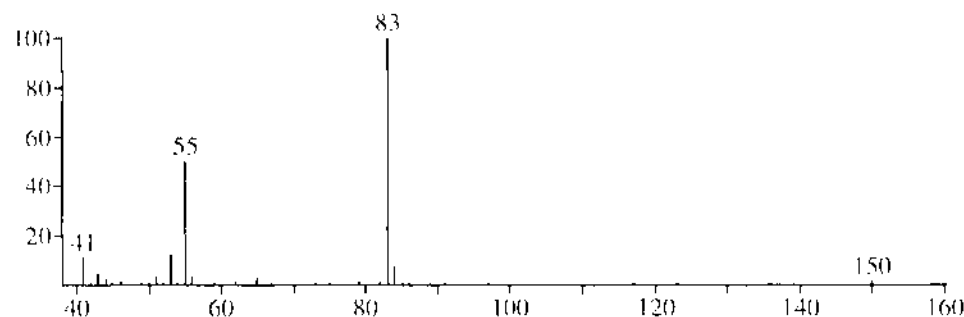
CN: cyclohexanol, 5-methyl-2-(1-methylethenyl)-, (1α,2α,5β)-

Synonyms: none

Source: Aldrich Chem.; 11.20% *Satureja gilliesii*, JEOR 8:183(1996);10.33% *Eucalyptus citriodora*; 4.90% *Citrus hystrix*RT: 13.43 AI: 1145 KI: 1149 **Myrcenone**CAS#: 539-70-8 MF: C₁₀H₁₄O FW: 150 MSD LIB#: 1020

CN: 2,7-octadien-4-one, 2-methyl-6-methylene-

Synonyms: ipsdienone

Source: *Lippia javanica* oil ex JW Mwangi, Kenya; 14.85% *Hyptis mutabilis*, JEOR 7:81(1995)

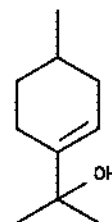
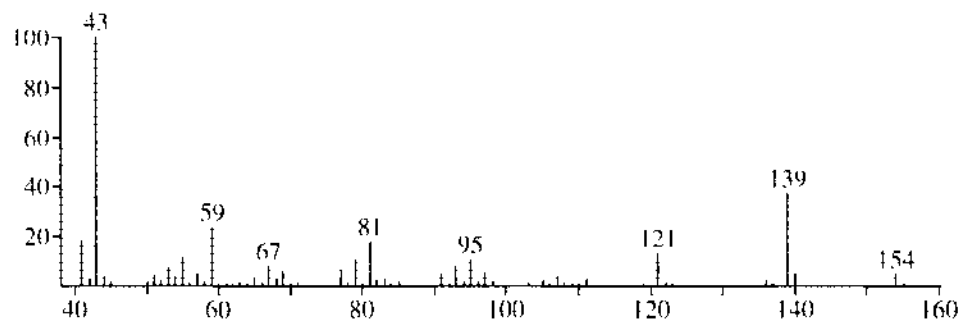
RT: 13.45 AI: 1145 KI: 1150 **Menth-3-en-8-ol <p>**

CAS#: 24302-23-6 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 588

CN: 1-cyclohexene-1-methanol, $\alpha,\alpha,4$ -trimethyl-

Synonyms: p-menth-3-en-8-ol

Source: *Dicerandra frutescens* oil ex Mark Deyrup, FL



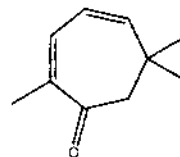
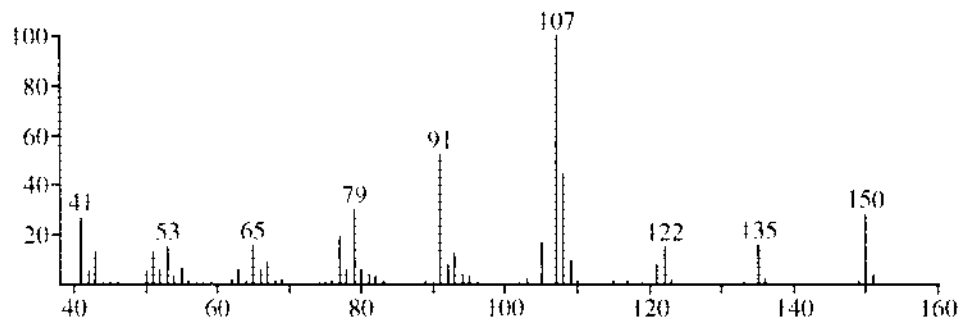
RT: 13.47 AI: 1146 KI: 1150 **Eucarvone**

CAS#: 503-93-5 MF: C₁₀H₁₄O FW: 150 MSD LIB#: 1793

CN: 2,4-cycloheptadien-1-one, 2,6,6-trimethyl-

Synonyms: none

Source: ref. cpd. ex Ian Southwell; 1.70% *Melissa officinalis*, in: Flavour Composition of Lemon Balm, I. Nykaenen, et al., Lebensm.-Wiss. U-Technol., 19:482(1986); 0.40% *Angelica archangelica*; 0.36% *Ribes nigrum*



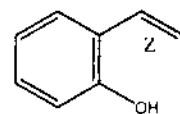
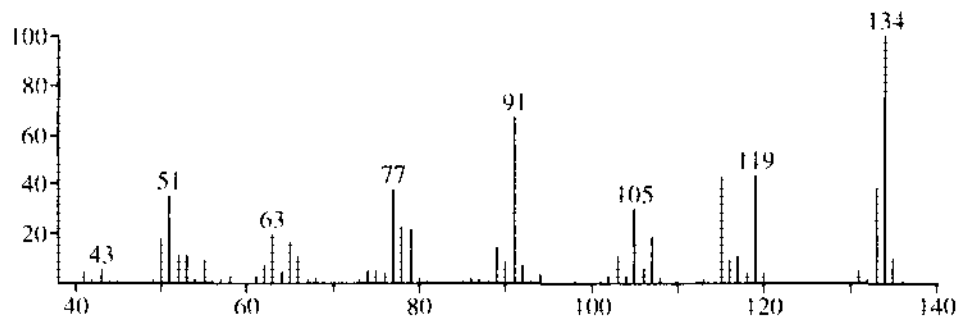
RT: 13.47 AI: 1146 KI: 1150 **Phenol <2-(1Z)-propenyl>**

CAS#: 23508-99-8 MF: C₉H₁₀O FW: 134 MSD LIB#: 1271

CN: phenol, 2-(1Z)-1-propenyl-

Synonyms: none

Source: Aldrich Chem.



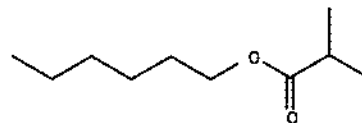
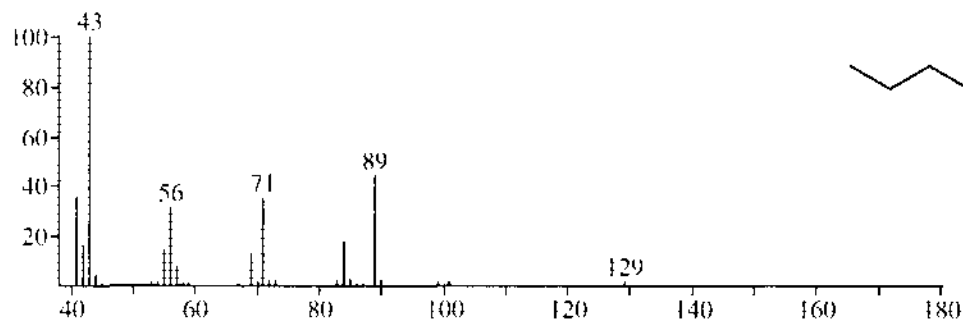
RT: 13.50 AI: 1147 KI: 1151 **Hexyl isobutanoate**

CAS#: 2349-07-7 MF: C₁₀H₂₀O₂ FW: 172 MSD LIB#: 817

CN: propanoic acid, 2-methyl-, hexyl ester

Synonyms: hexyl isobutyrate

Source: Pfaltz & Bauer ex Art Tucker



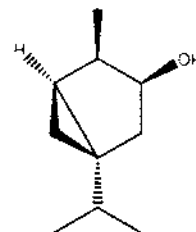
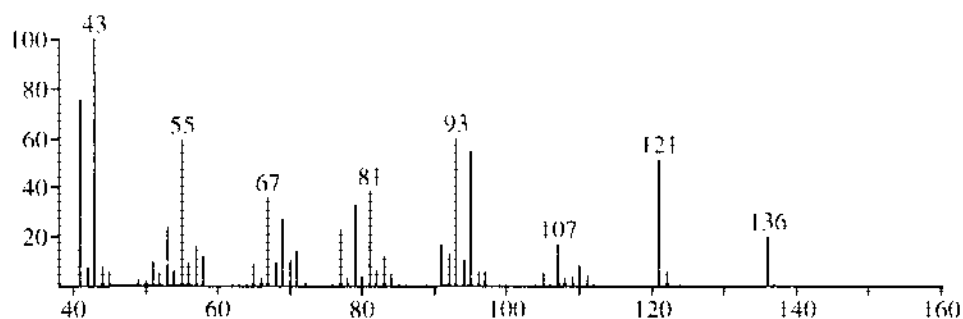
RT: 13.50 AI: 1147 KI: 1151 **Thujanol <neoiso-3->**

CAS#: 21653-19-0 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1490

CN: bicyclo[3.1.0]hexan-3-ol, 4-methyl-1-(1-methylethyl)-, (1S-(1α,3β,4β,5α))-

Synonyms: neoisothujol

Source: ref. cpd. ex E. von Rudloff



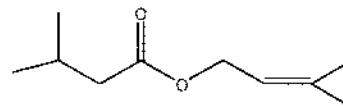
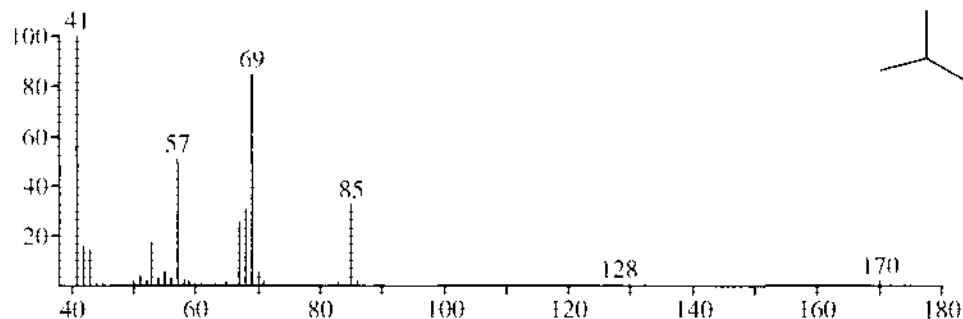
RT: 13.51 AI: 1147 KI: 1151 **Butanoate <3-methyl-2-butenyl 3-methyl->**

CAS#: 89026-29-9 MF: C₁₀H₁₈O₂ FW: 170 MSD LIB#: 1580

CN: butanoic acid, 3-methyl-, 3-methyl-2-butenyl ester

Synonyms: none

Source: *Chenopodium botrys* ex Vasu Dev



RT: 13.54 AI: 1148 KE: 1152 **Tagetone <(Z)->**

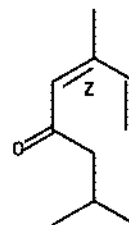
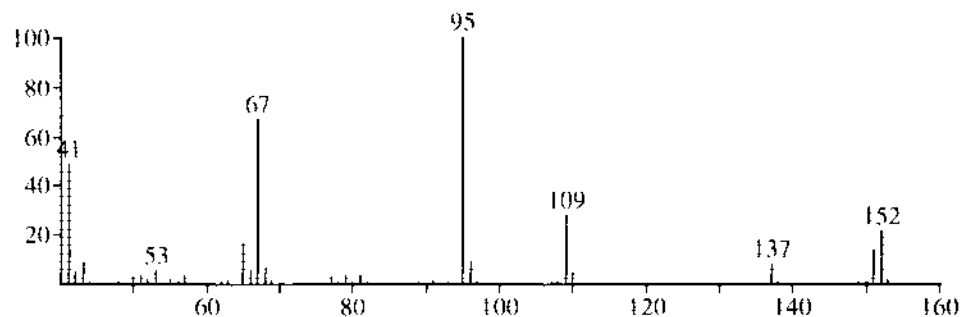
CAS#: 3588-18-9 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1455

CN: 5,7-octadien-4-one, 2,6-dimethyl-, (Z)-

Synonyms: cis-tagetone

Source: *Tagetes minuta* oil ex H. Hethelyi, Hungary; 68.20% *Tagetes terniflora*,

JEOR 5:679(1993); 27.15% *Tagetes minuta*; 11.00% *Lippia dauensis*



RT: 13.55 AI: 1148 KE: 1152 **Menthone**

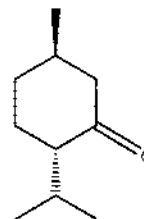
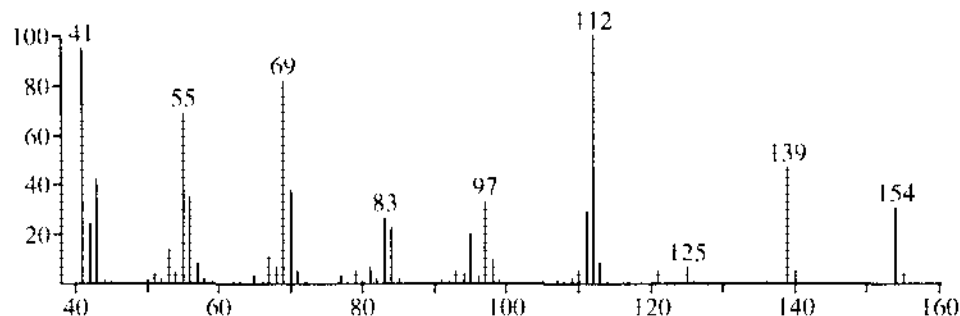
CAS#: 89-80-5 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1261

CN: cyclohexanone, 5-methyl-2-(1-methylethyl)-, trans-

Synonyms: p-menthan-3-one, trans-

Source: Peppermint oil, McCormick Co.; 60.00% *Mentha longifolia*,

Parf., Cosm., Aromes 64:83(1985); 57.20% *Mentha spicata*; 54.11% *Satureja boliviana*



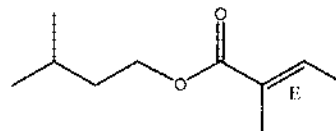
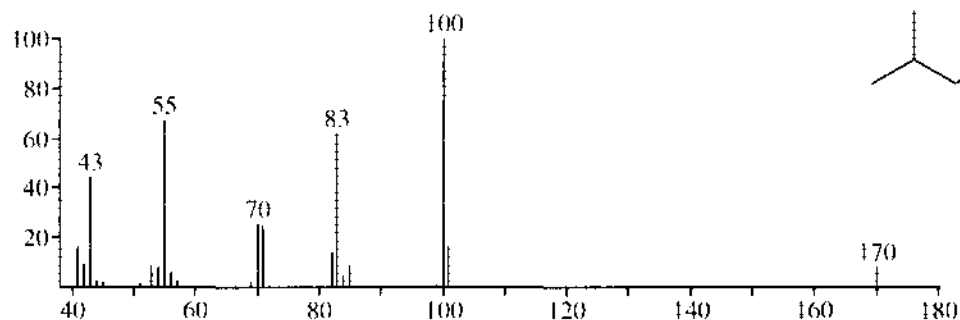
RT: 13.57 AI: 1148 KE: 1153 **Isoamyl tiglate**

CAS#: 41519-18-0 MF: C₁₀H₁₈O₂ FW: 170 MSD LIB#: 1990

CN: 2-butenic acid, 2-methyl-, 3-methylbutyl ester (2E)-

Synonyms: none

Source: Bedoukian Res. ex JJ Brophy; 0.44% *Anthemis nobilis* (Japan), Koryo 161:93(1989)



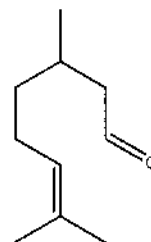
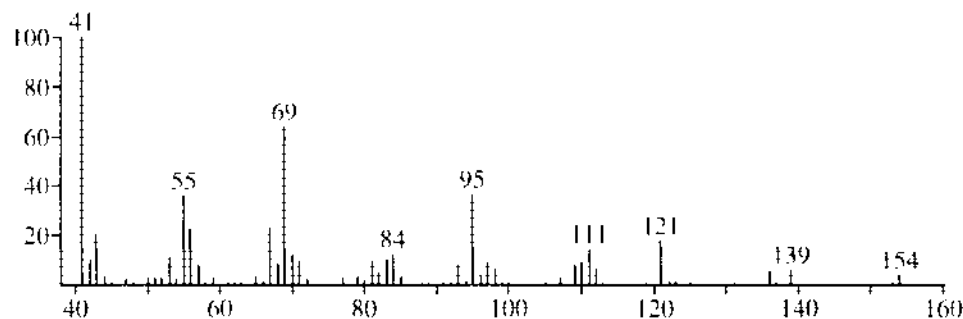
RT: 13.58 AI: 1148 KI: 1153 **Citronellal**CAS#: 106-23-0 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 923

CN: dimethyl-6-octenal <3,7->

Synonyms: 2,3-dihydrocitra; rhodinal; 3,7-dimethyl-6-octenal

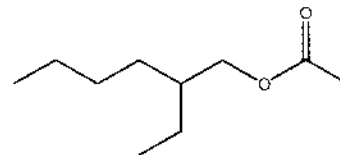
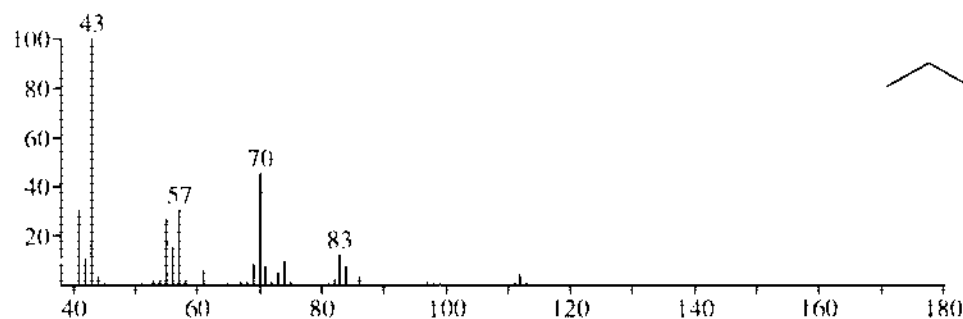
Source: *Juniperus monticola* L. *compacta* leaves, RP Adams #2580; 86.22 *Eucalyptus citriodora*,

p. 50, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong (1993);

76.55% *Litsea cubeba*; 65.40% *Citrus hystrix*RT: 13.59 AI: 1149 KI: 1153 **Ethyl hexyl acetate <2->**CAS#: 103-09-3 MF: C₁₀H₂₀O₂ FW: 172 MSD LIB#: 673

CN: acetic acid, 2-ethylhexyl ester

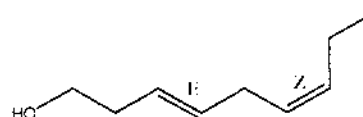
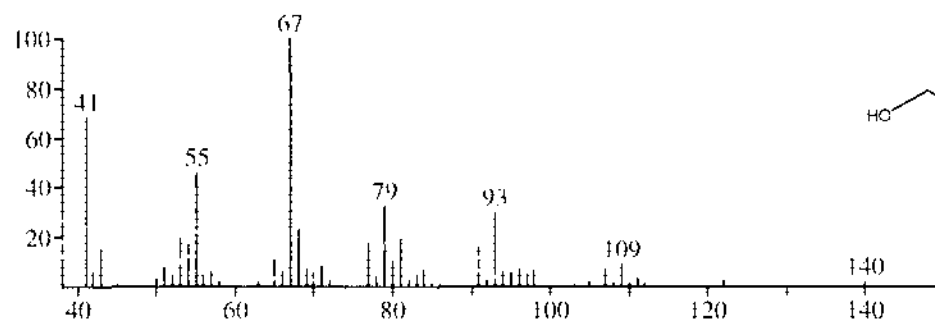
Synonyms: 2-ethylhexyl ethanoate

Source: Aldrich Chem.; 1.10% *Alpinia katsumadai* (seed), JEOR 2:259(1990);0.10% *Alpinia chinensis* (flower)RT: 13.59 AI: 1149 KI: 1153 **Nonadienol <(3E,6Z)->**CAS#: 56805-23-3 MF: C₉H₁₆O FW: 140 MSD LIB#: 2129

CN: 3,6-nonadien-1-ol, (3E,6Z)-

Synonyms: none

Source: Bedoukian Res.



RT: 13.60 AI: 1149 KI: 1153 **Thujanol <neo-3->**

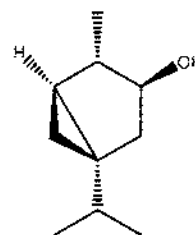
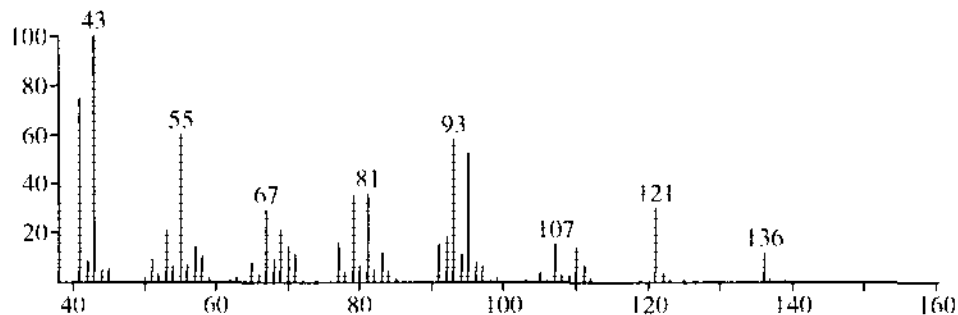
CAS#: 21653-18-9 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1491

CN: bicyclo(3.1.0)hexan-3-ol, 4-methyl-1-(1-methylethyl)-, (1S-(1 α ,3 β ,4 α ,5 α))-

Synonyms: neothujol

Source: ref. cpd. ex E. von Rudloff; 0.26% *Artemisia moorcroftiana*.

p.26, in: Newer Trends in Ess. Oils & Flav., P. Weyerstahl, New Delhi, India(1993)



RT: 13.62 AI: 1149 KI: 1154 **Isobutyl hexanoate**

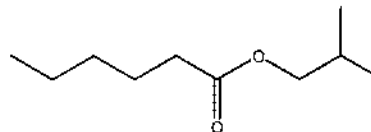
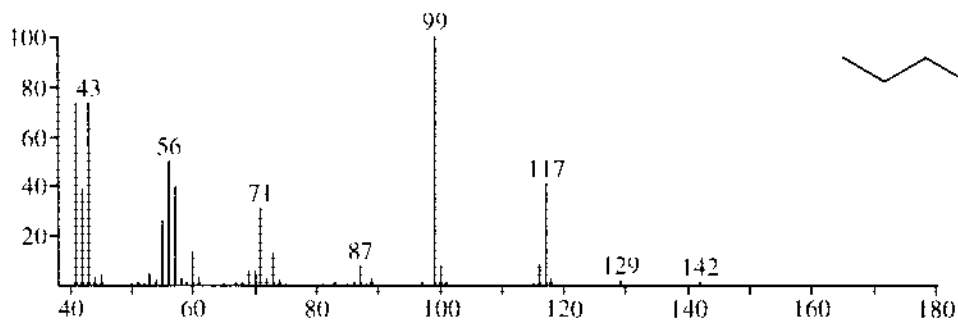
CAS#: 105-79-3 MF: C₁₀H₂₀O₂ FW: 172 MSD LIB#: 1614

CN: hexanoic acid, 2-methylpropyl ester

Synonyms: isobutyl caproate

Source: Aldrich Chem.; 1.32% *Michelia balansae*, p. 15, in: Aromatic Plants & Essential

Constituents, Peace Book Co., Hong Kong(1993); 0.23% *Michelia figo* (flower)



RT: 13.64 AI: 1150 KI: 1154 **Nonadienal <(2E,6Z)->**

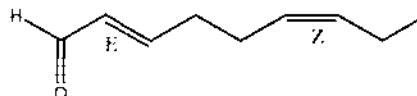
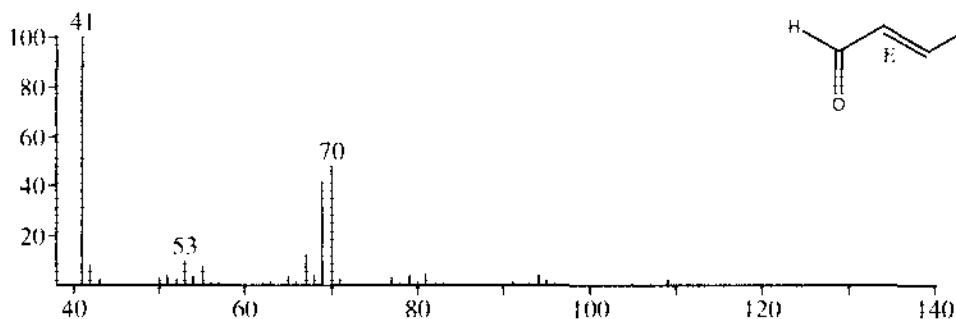
CAS#: 557-48-2 MF: C₉H₁₄O FW: 138 MSD LIB#: 1162

CN: 2,6-nonadienal, (E,Z)-

Synonyms: cucumber aldehyde; nonadienal, trans-2,cis-6-; violet leaf aldehyde

Source: Aldrich Chem. ex Art Tucker; 13.00% *Viola odorata*, Pytochemistry 31:571(1992);

0.10% *Narcissus poeticus*; 0.07% *Acacia farnesiana*

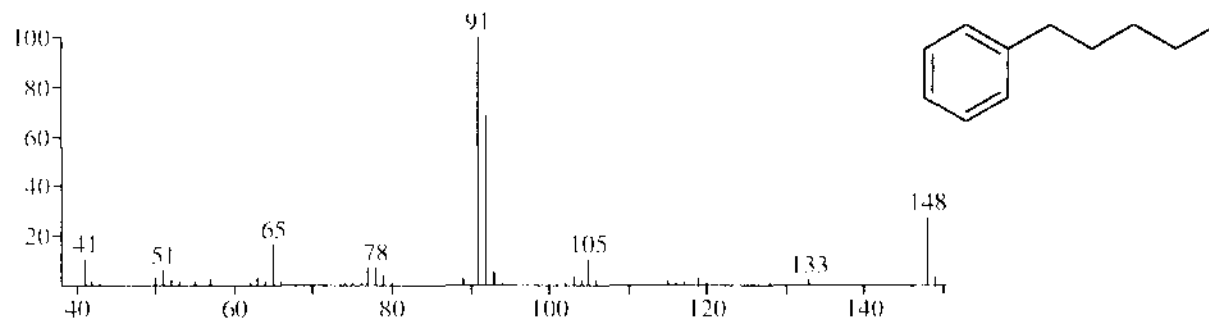


RT: 13.73 AI: 1152 KI: 1156 **Benzene <pentyl->**CAS#: 538-68-1 MF: C₁₁H₁₆ FW: 148 MSD LIB#: 422

CN: benzene, pentyl-

Synonyms: amylbenzene; phenylpentane; pentylbenzene

Source: Celery seed oil (distilled in lab). RP Adams #5434

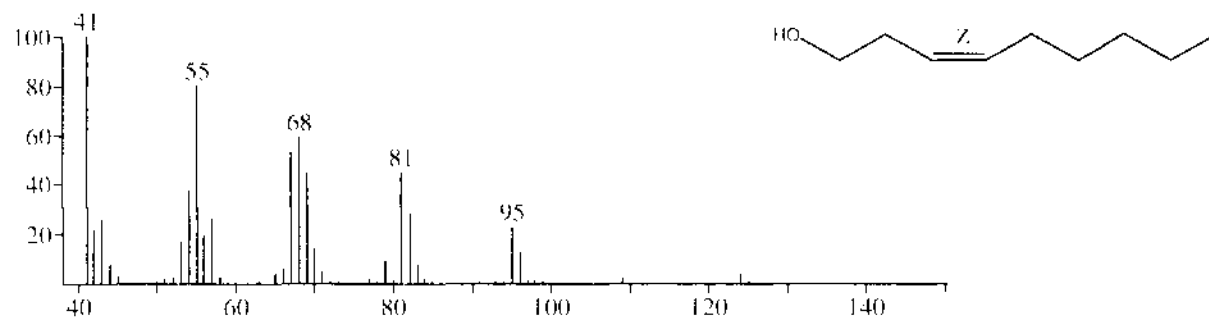
RT: 13.74 AI: 1152 KI: 1157 **Nonen-1-ol <(3Z)->**CAS#: 10340-23-5 MF: C₉H₁₈O FW: 142 MSD LIB#: 1170

CN: 3-nonen-1-ol, (Z)-

Synonyms: none

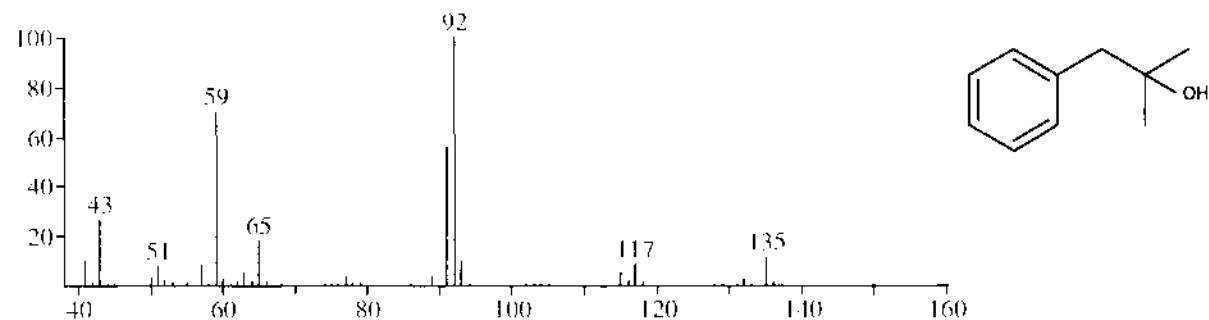
Source: Aldrich Chem.; 0.72% *Acacia farnesiana* (blossom absolute), J. Ag.

Food Chem. 31:1167(1983)

RT: 13.79 AI: 1153 KI: 1158 **Phenyl-tert-butanol**CAS#: 100-86-7 MF: C₁₀H₁₄O FW: 150 MSD LIB#: 1284CN: benzene ethanol, α , α -dimethyl-

Synonyms: 2-benzyl-2-propanol; benzyldimethylcarbinol

Source: K & K Chem. ex Art Tucker



RT: 13.80 AI: 1154 KI: 1158 **Nerol oxide**

CAS#: 1786-08-9 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1139

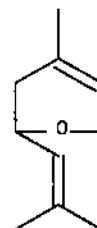
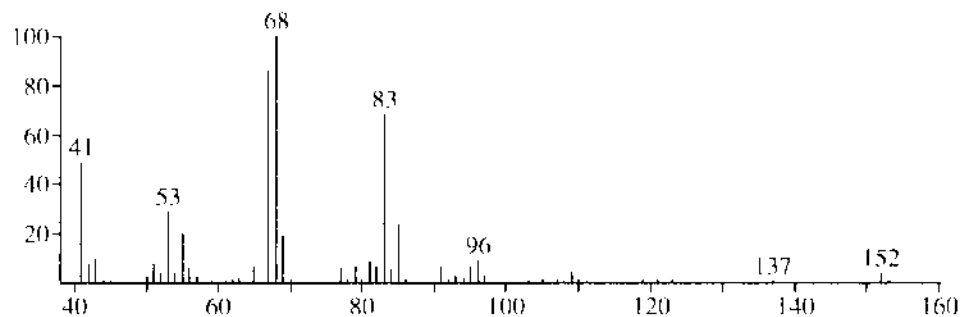
CN: 2H-pyran, 3,6-dihydro-4-methyl-2-(2-methyl-1-propenyl)-

Synonyms: none

Source: Firmenich ex Jian-Qin Cu. Kunming; 0.15% *Zanthoxylum nitidum*.

p. 75, in: *Newer Trends in Ess. Oils & Flav.*, P. Weyerstahl, New Delhi, India(1993);

0.10% *Dracocephalum moldavica*; 0.09% *Rosa damascena*



RT: 13.82 AI: 1154 KI: 1159 **Karahanaenone**

CAS#: 19822-67-4 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 516

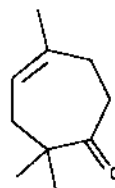
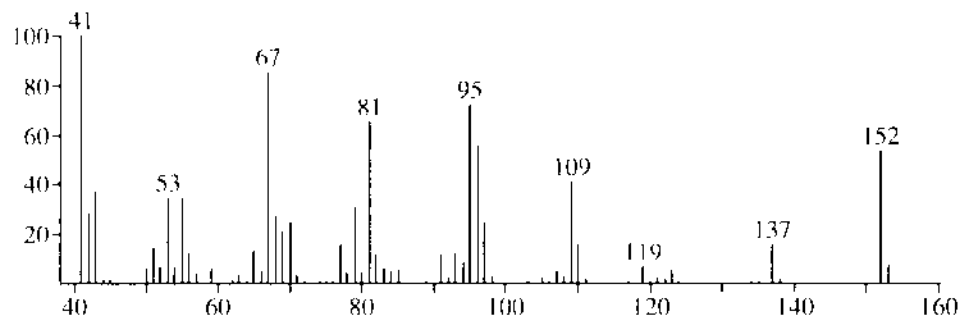
CN: 4-cyclohepten-1-one, 2,2,5-trimethyl-

Synonyms: none

Source: *Cupressus sargentii* oil ex Larry Cool; 0.70% *Cupressus sempervirens*,

in: *Contribution to the study of the chemical composition of cypress oil*, J. Garnero, et al.

Paper #112, *Cong. Ess. Oils*, Kyoto(1977)



RT: 13.83 AI: 1154 KI: 1159 **Pinene oxide <β>**

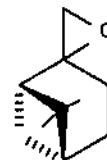
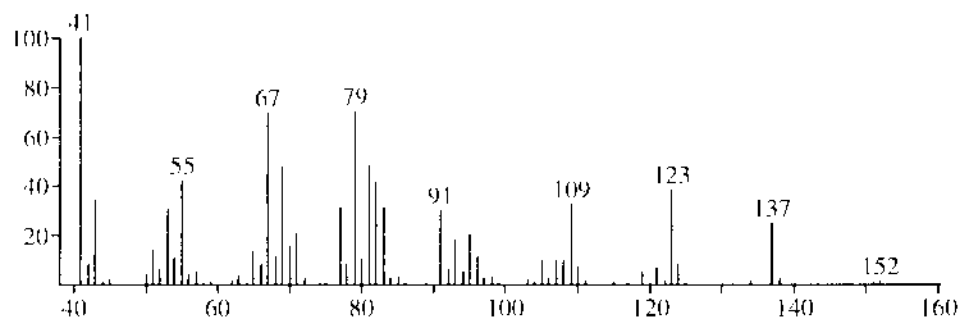
CAS#: 6931-54-0 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1303

CN: spiro(bicyclo(3.1.1)heptane-2,2'-oxirane), 6,6-dimethyl-

Synonyms: pinane, 2,10-epoxy-

Source: Aldrich Chem. ex H. Hills; 0.20% *Juniperus foetidissima* (leaf), JEOR 2:67(1990);

0.20% *Juniperus martinezii*



RT: 13.83 AI: 1154 KI: 1159 **Sabina ketone**

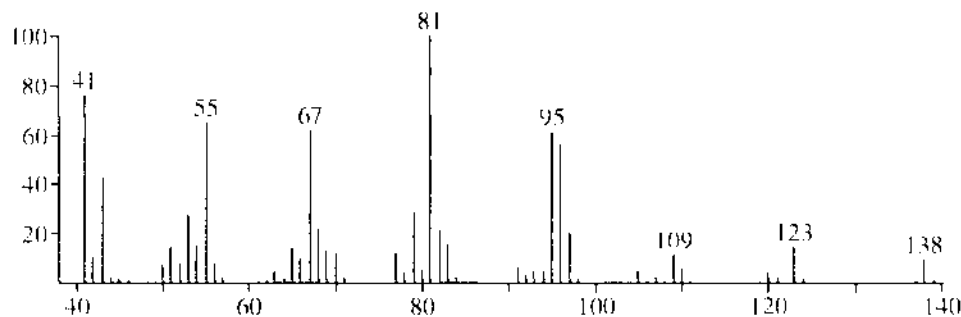
CAS#: 513-20-2 MF: C₉H₁₄O FW: 138 MSD LIB#: 212

CN: bicyclo(3.1.0)hexan-2-one, 5-(1-methylethyl)-

Synonyms: none

Source: *Artemisia persica* oil ex P. Weyerstahl; 3.00% *Artemisia roxburghiana*,

JEOR 6:345(1994); 1.70% *Artemisia persica*; 1.53% *Artemisia gmelini*



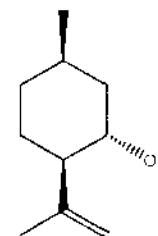
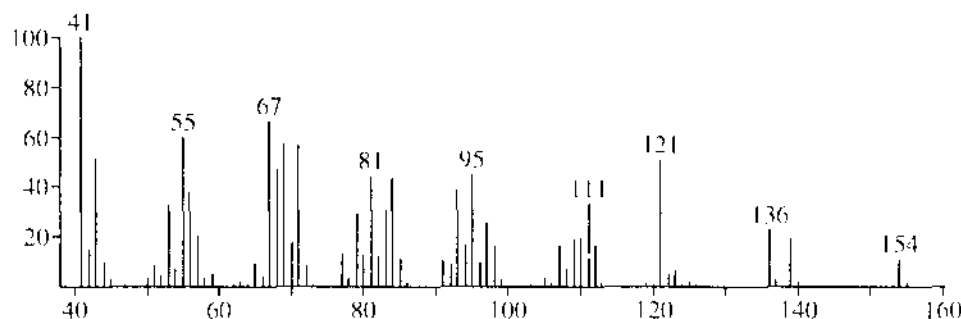
RT: 13.86 AI: 1155 KI: 1159 **Isopulegol <iso>**

CAS#: 59905-54-3 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 878

CN: cyclohexanol, 5-methyl-2-(1-methylethenyl)-, (1 α ,2 β ,5 β)-

Synonyms: none

Source: Aldrich Chem.



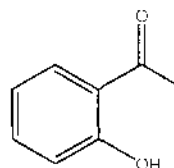
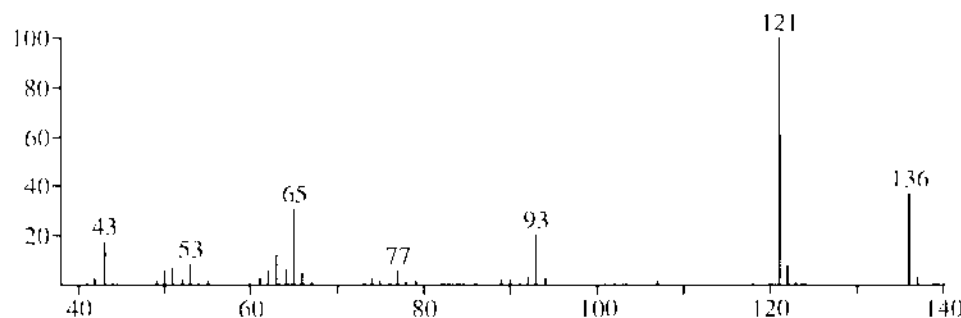
RT: 13.87 AI: 1155 KI: 1160 **Hydroxy acetophenone <2'->**

CAS#: 118-93-4 MF: C₈H₈O₂ FW: 136 MSD LIB#: 1593

CN: ethanone, 1-(2-hydroxyphenyl)-

Synonyms: o-acetophenol

Source: Aldrich Chem.; 0.01% *Iris florentina*, Rivista italiana EPPOS 63:141(1981)



RT: 13.87 AI: 1155 KE: 1160 **Isoborneol**

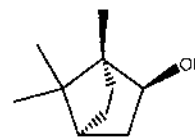
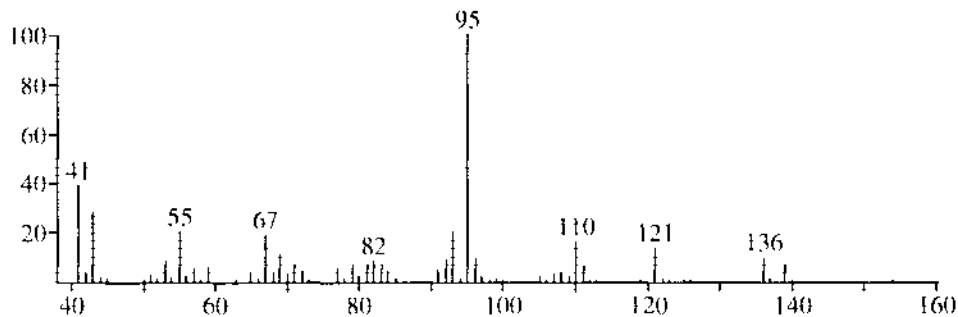
CAS#: 124-76-5 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1441

CN: bicyclo(2.2.1)heptan-2-ol, 1,7,7-trimethyl-, exo-

Synonyms: none

Source: *Strobilanthes auriculatus* oil ex P. Weyerstahl; 22.90% *Curcuma pierreana* (rhizome).

HEOR 7:261(1995); 19.20% *Strobilanthes auriculatus*



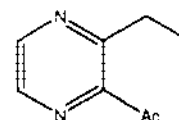
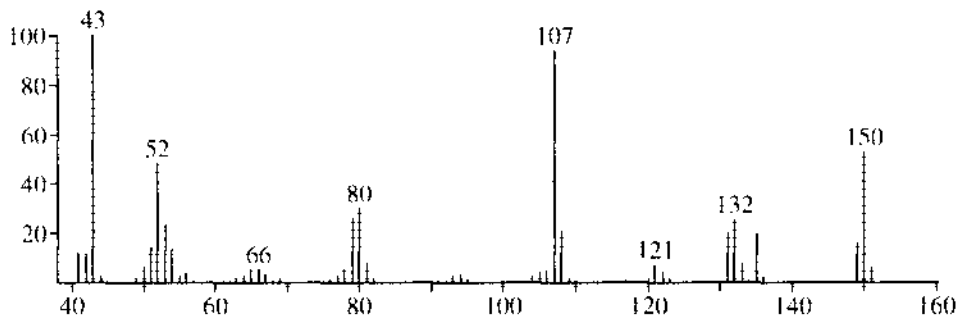
RT: 13.89 AI: 1156 KE: 1160 **Pyrazine <2-acetyl-3-ethyl->**

CAS#: 32974-92-8 MF: C₈H₁₀N₂O FW: 150 MSD LIB#: 1351

CN: ethanone, 1-(3-ethylpyrazinyl)-

Synonyms: none

Source: Pyrazine Specialties ex Art Tucker



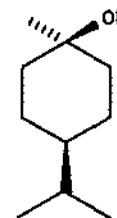
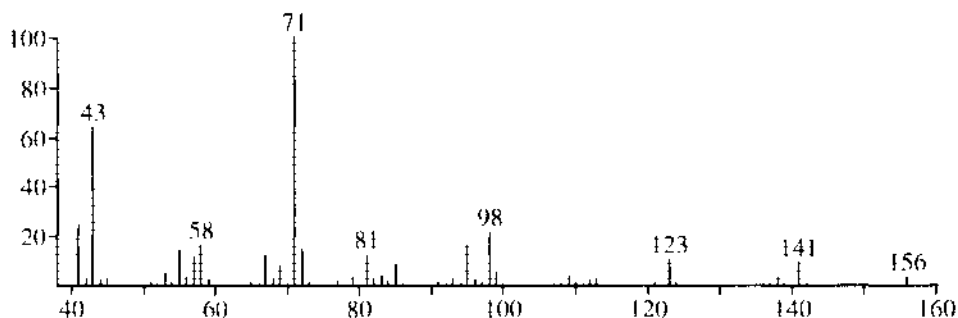
RT: 13.89 AI: 1156 KE: 1160 **Terpineol <cis-dihydro-β->**

CAS#: 3901-95-9 MF: C₁₀H₂₀O FW: 156 MSD LIB#: 1469

CN: cyclohexanol, 1-methyl-4-(1-methylethyl)-, cis-

Synonyms: p-menthan-1-ol, cis-

Source: SCM Chems. ex H Hills



RT: 13.91 AI: 1156 KI: 1160 **Pentyl cyclohexa-1,3-diene**

CAS#: 56318-84-4 MF: C₁₁H₁₈ FW: 150 MSD LIB#: 1812

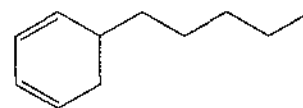
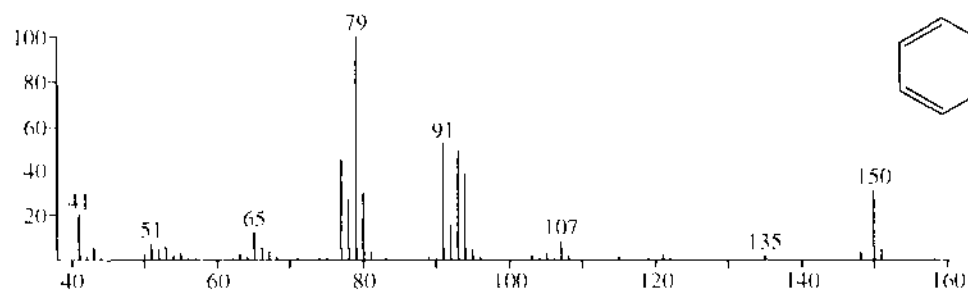
CN: 1,3-cyclohexadiene, 5-pentyl-

Synonyms: none

Source: distillation of celery seed (Durkee Spice Co.), RP Adams #5534;

3.30% *Apium graveolens* (seed); Parf. Cosm. Aromes 90:85(1989);

3.00% *Apium graveolens* (flower); 0.53% *Levisticum officinale*



RT: 13.94 AI: 1157 KI: 1161 **Nonen-1-al <(2E)->**

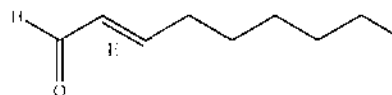
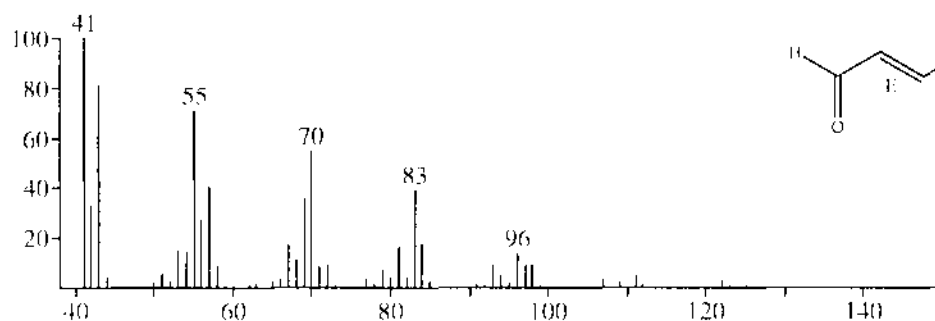
CAS#: 18829-56-6 MF: C₉H₁₆O FW: 140 MSD LIB#: 1168

CN: 2-nonenal, (E)-

Synonyms: none

Source: Bedoukian Res. ex Art Tucker; 1.00% *Rhus coriaria*.

Dragoco Reports 3:81(1993); 0.30% *Coriandrum sativum*; 0.22% *Citrus sinensis*



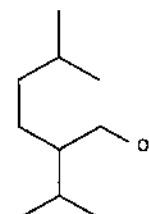
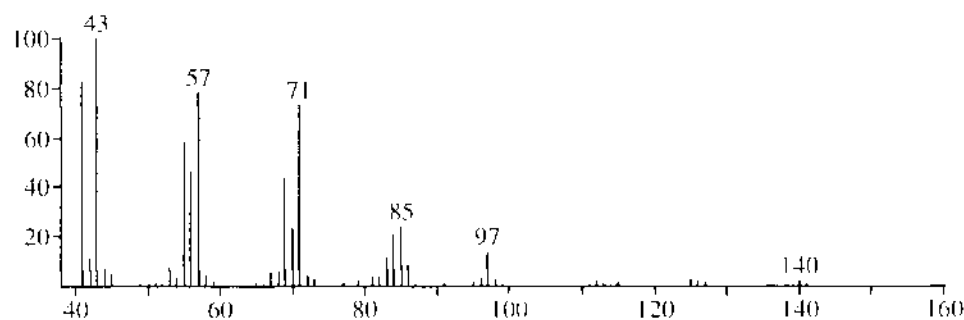
RT: 13.95 AI: 1157 KI: 1161 **Lavandulol <tetrahydro->**

CAS#: 41884-28-0 MF: C₁₀H₂₂O FW: 158 MSD LIB#: 984

CN: 1-hexanol, 5-methyl-2-(1-methylethyl)-

Synonyms: none

Source: ref. cpd. ex E. von Rudloff



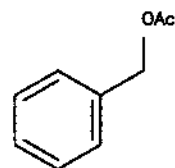
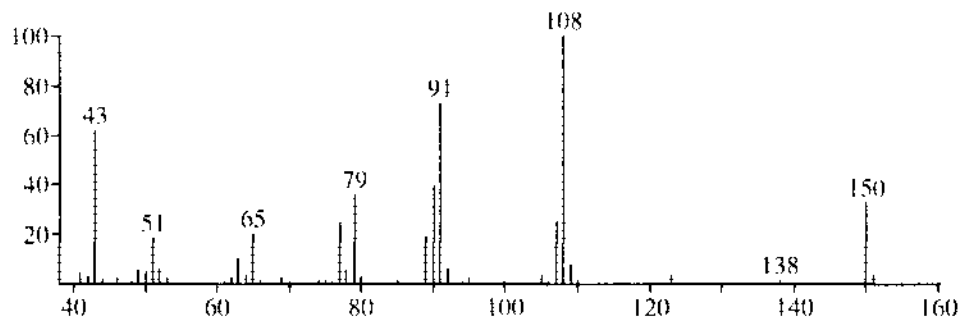
RT: 13.96 AI: 1157 KI: 1162 **Benzyl acetate**

CAS#: 140-11-4 MF: C₉H₁₀O₂ FW: 150 MSD LIB#: 289

CN: acetic acid, phenylmethyl ester

Synonyms: benzyl ethanoate; α -acetoxytoluene

Source: Jasmin absolute ex A.F.Thomas; *Cananga* Oil; *Ylang ylang* Oil; 84.80% *Narcissus tazetta*, p. 108, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong (1993); 71.00% *Jasminum officinale*; 25.10% *Ylang ylang*



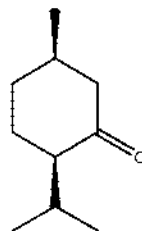
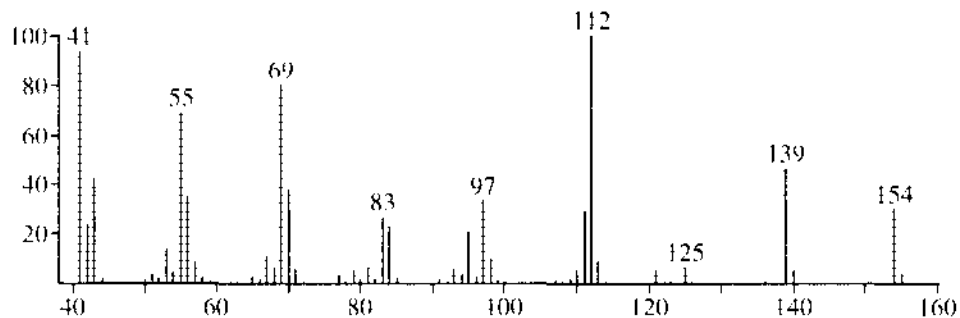
RT: 13.99 AI: 1158 KI: 1162 **Menthone <iso->**

CAS#: 491-07-6 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1255

CN: cyclohexanone, 5-methyl-2-(1-methylethyl)-, cis-

Synonyms: p-menthan-3-one, cis-

Source: Peppermint oil, McCormick Co.; 57.62% *Mentha spicata*, Perf. Flav. 19:41(1995); 35.00% *Agathosma betulina*; 25.00% *Mentha piperita*



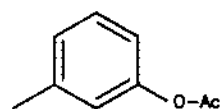
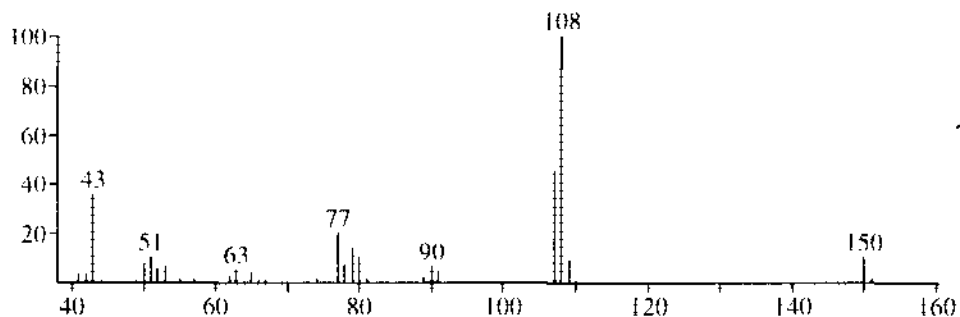
RT: 14.00 AI: 1158 KI: 1162 **Cresol acetate <meta->**

CAS#: 122-46-3 MF: C₉H₁₀O₂ FW: 150 MSD LIB#: 483

CN: acetic acid, 3-methylphenyl ester

Synonyms: 3-acetoxytoluene; 3-tolyl acetate; cresatin

Source: acetylation of m-cresol (5828)



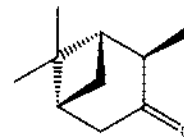
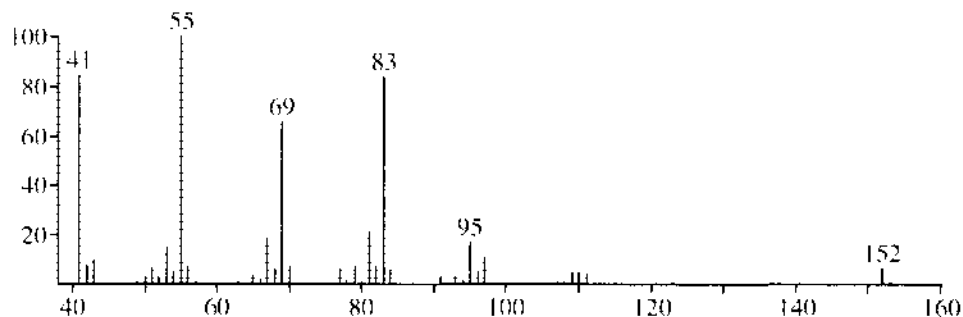
RT: 14.00 AI: 1158 KI: 1162 **Pinocamphone <trans->**

CAS#: 547-60-4 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1310

CN: bicyclo(3.1.1)heptan-3-one, 2,6,6-trimethyl-, (1a,2a,5a)-

Synonyms: trans-3-pinanone

Source: ref. cpd. ex P. Weyerstahl



RT: 14.02 AI: 1159 KI: 1163 **Terpineol <trans-β->**

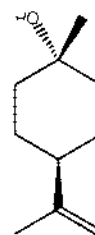
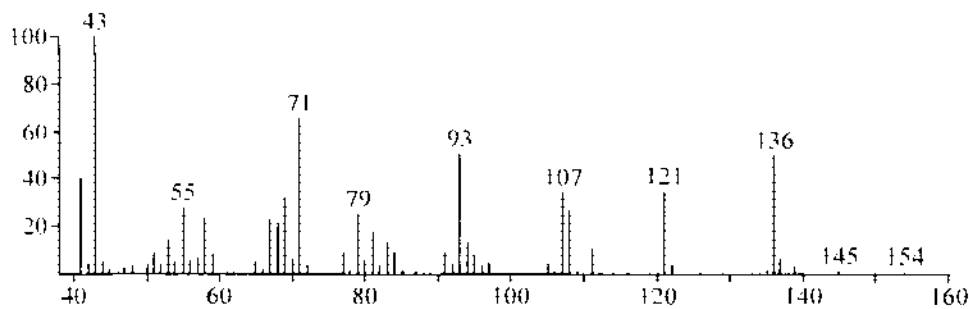
CAS#: 7299-40-3 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1004

CN: cyclohexanol, 1-methyl-4-(1-methylethenyl)-, trans-

Synonyms: p-menth-8-en-1-ol, isomer

Source: West Indian lime oil, Lorann Oils: 1.80% *Citrus junos*, J. Chromatog. 268:336(1983);

1.25% *Majorana hortensis*; 0.34% *Pistacia lentiscus*



RT: 14.04 AI: 1159 KI: 1163 **Nonadienol <(2E,6Z)->**

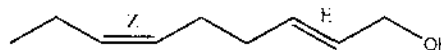
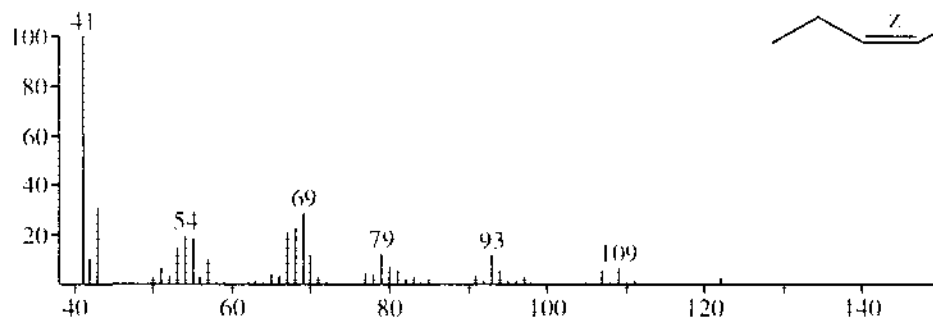
CAS#: 28069-72-9 MF: C₉H₁₆O FW: 140 MSD LIB#: 2126

CN: 2,6-nonadien-1-ol, (2E,6Z)-

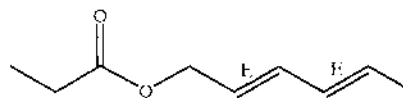
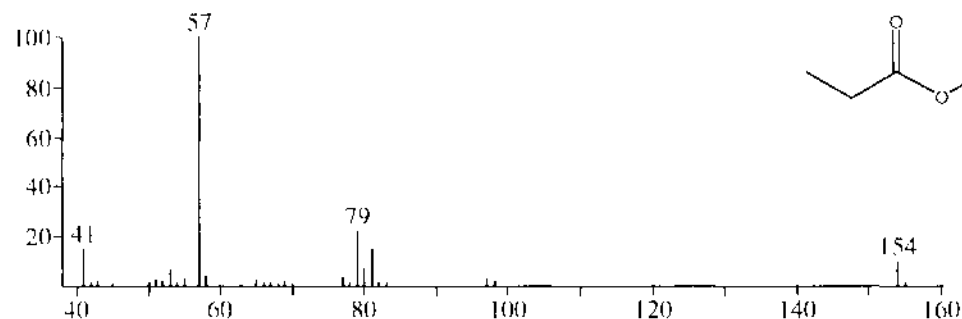
Synonyms: none

Source: Bedoukian Res.: 0.01% *Viola odorata*, Dragoco Rept. 5-21(1996);

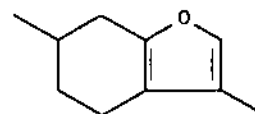
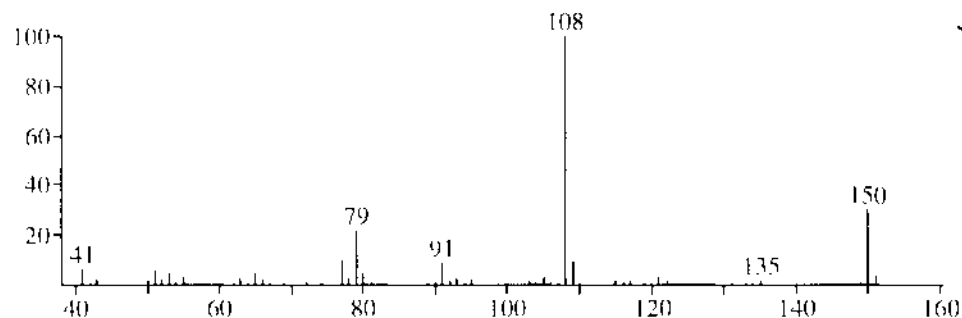
0.01% *Ribes sanguineum*; 0.01% *Jasmine polyanthum*



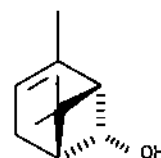
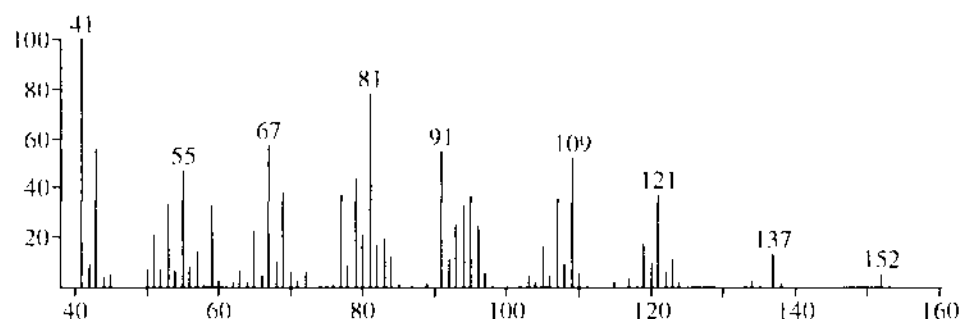
RT: 14.05 AI: 1159 KI: 1164 **Hexadienol propanoate <(2E,4E)->**
 CAS#: 95994-92-6 MF: C₉H₁₄O₂ FW: 154 MSD LIB#: 2100
 CN: 2,4-hexadien-1-ol, propanoate, (2E,4E)-
 Synonyms: sorbyl acetate
 Source: Bedoukian Res.



RT: 14.05 AI: 1159 KI: 1164 **Menthofuran**
 CAS#: 494-90-6 MF: C₁₀H₁₄O FW: 150 MSD LIB#: 701
 CN: benzofuran, 4,5,6,7-tetrahydro-3,6-dimethyl-
 Synonyms: p-mentha-3,8-diene, 3,9-epoxy-
 Source: Peppermint oil, (McCormick Co.): 58.50% *Mentha aquatica*, p. 141, in: Flav. & Frag.:
 A World Persp., Lawrence, et al., 10th Intl. Cong. of Ess. Oils, Elsevier, Amsterdam (1988);
 54.00% *Euodia hortensis*; 38.96% *Mentha denticulata*



RT: 14.06 AI: 1160 KI: 1164 **Chrysanthenol <cis->**
 CAS#: 55722-60-6 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 199
 CN: bicyclo(3.1.1)hept-2-en-6-ol, 2,7,7 trimethyl-, (1a,5a,6a)-
 Synonyms: none
 Source: *Artemisia absinthium* ex A. Carnot; 1.40% *Artemisia moorcroftiana*,
 p. 26, in: Newer Trends in Ess. Oils & Flav., P. Weyerstahl, New Delhi, India (1993);
 0.50% *Artemisia annua*; 0.38% *Artemisia vestita*



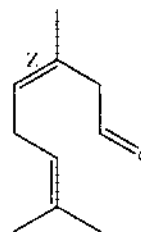
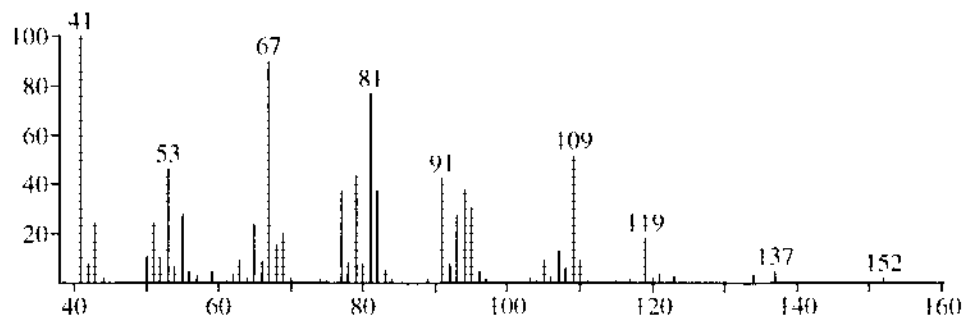
RT: 14.06 AI: 1160 KI: 1164 **Isocitral <(Z)->**

CAS#: 72203-97-5 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1727

CN: 3,6-octadienal, 3,7-dimethyl-, (3Z)-

Synonyms: isonerol

Source: *Backhousia citriodora* oil ex. Ian Southwell



RT: 14.07 AI: 1160 KI: 1164 **Pinocarvone**

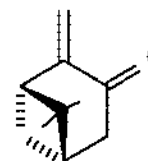
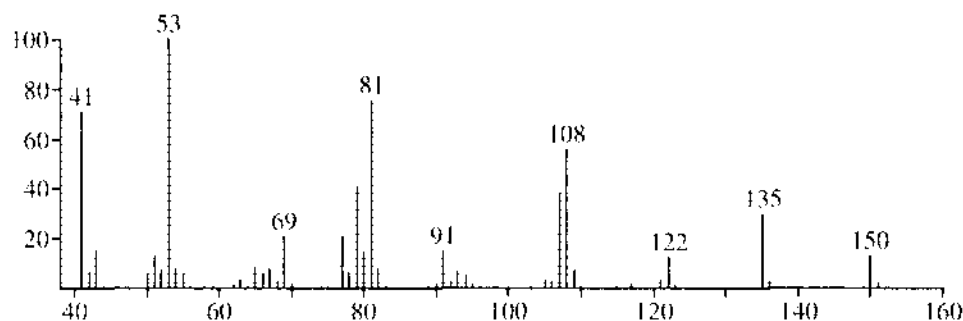
CAS#: 16812-40-1 MF: C₁₀H₁₄O FW: 150 MSD LIB#: 410

CN: bicyclo[3.1.1]heptan-3-one, 6,6-dimethyl-2-methylene- (9C1)

Synonyms: 3-nopinone; 2(10)-pinen-3-one

Source: ref. cpd. ex B. Rodriguez, Spain; 25.75% *Hyssopus officinalis*.

J. Ag. Food Chem. 42:776(1994); 4.70% *Artemisia argentea*; 3.59% *Anthemis nobilis*



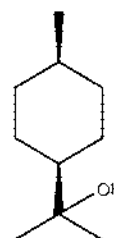
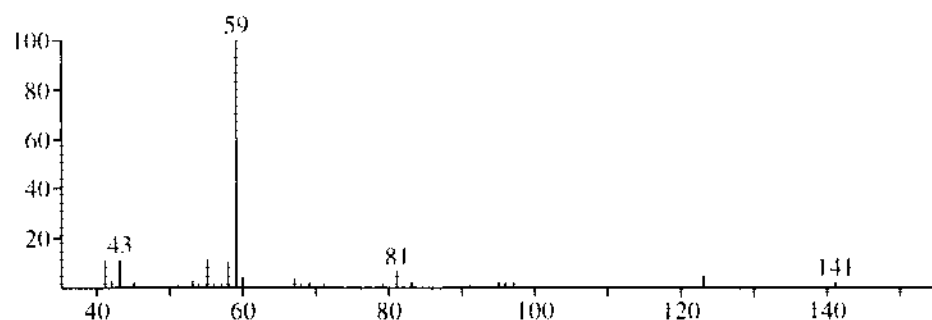
RT: 14.09 AI: 1160 KI: 1164 **Terpineol <cis-dihydro-α->**

CAS#: 7322-63-6 MF: C₁₀H₂₀O FW: 156 MSD LIB#: 1471

CN: cyclohexanemethanol, α,α,4-trimethyl-, cis-

Synonyms: p-menthan-8-ol, cis-

Source: ref. cpd. ex E. von Rudloff



RT: 14.12 AI: 1161 KE: 1165 **Dimethoxybenzene <1,4>**

CAS#: 150-78-7 MF: C₈H₁₀O₂ FW: 138 MSD LIB#: 613

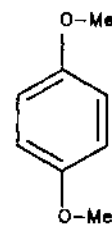
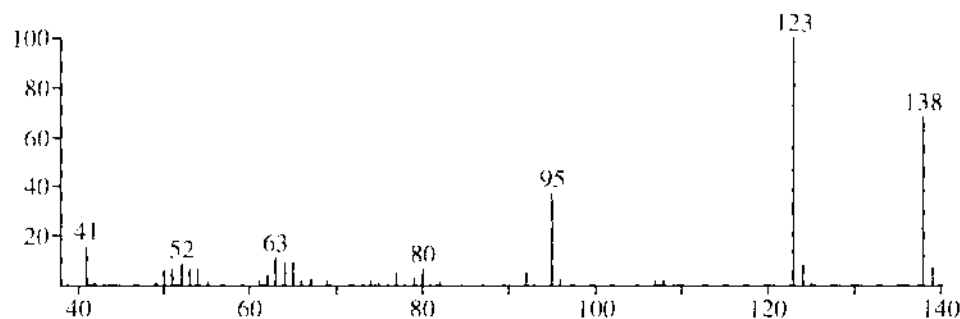
CN: benzene, 1,4-dimethoxy-

Synonyms: hydroquinone dimethyl ether; quinol dimethyl ether; p-methoxyanisole

Source: Aldrich Chem.: 52.30% *Syringa vulgaris*, p. 415, in: Flav. & Frag.: A World Persp.,

Lawrence, et al., 10th Intl. Cong. of Ess. Oils, Elsevier, Amsterdam (1988);

17.00% *Viola odorata*; 3.30% *Lycaste aromatica*



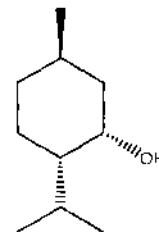
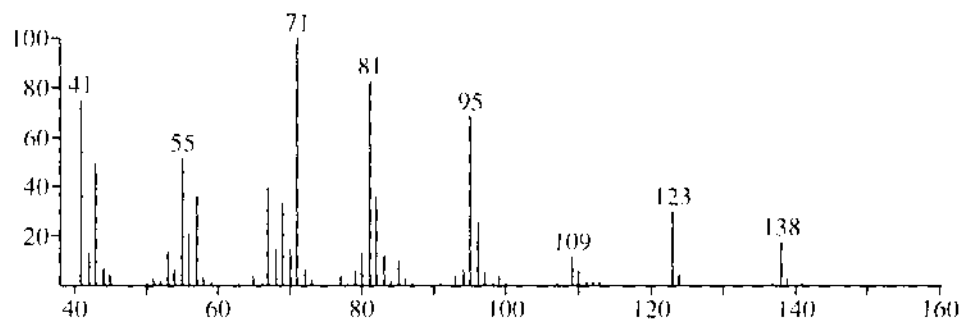
RT: 14.13 AI: 1161 KE: 1165 **Menthol <neo>**

CAS#: 491-01-0 MF: C₁₀H₂₀O FW: 156 MSD LIB#: 1256

CN: cyclohexanol, 5-methyl-2-(1-methylethyl)-, (1 α ,2 α ,5 β)-

Synonyms: menthol, trans-1,3, trans-1,4-

Source: Peppermint oil, McCormick Co.



RT: 14.14 AI: 1162 KE: 1166 **Terpineol < δ >**

CAS#: 7299-42-5 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 148

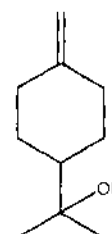
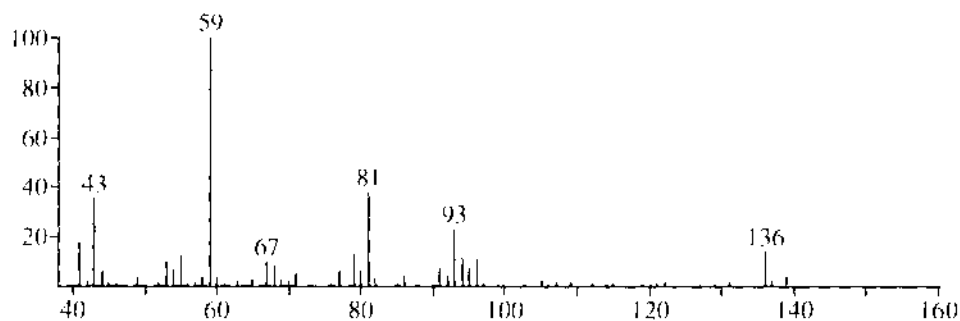
CN: cyclohexanemethanol, α,α -dimethyl-4-methylene-

Synonyms: p-menth-1(7)-en-8-ol

Source: *Amyris diatrypa* (Dom. Rep.) oil ex Tom Zanoni, identified by Teris van Beck;

13.02% *Pistacia lentiscus*, JEOR 4:663(1992); 03.67% *Melittis melissophyllum*;

2.10% *Rosmarinus officinalis*



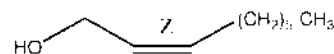
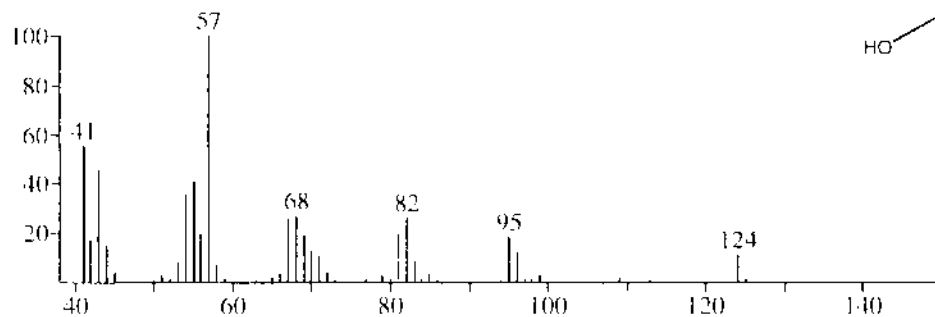
RT: 14.15 AI: 1162 KI: 1166 **Nonenol <(2Z)->**

CAS#: 41453-56-9 MF: C₉H₁₈O FW: 142 MSD LIB#: 2081

CN: 2-nonen-1-ol, (2Z)-

Synonyms: none

Source: Bedoukian Res.



RT: 14.20 AI: 1163 KI: 1167 **Nonenol <(2E)->**

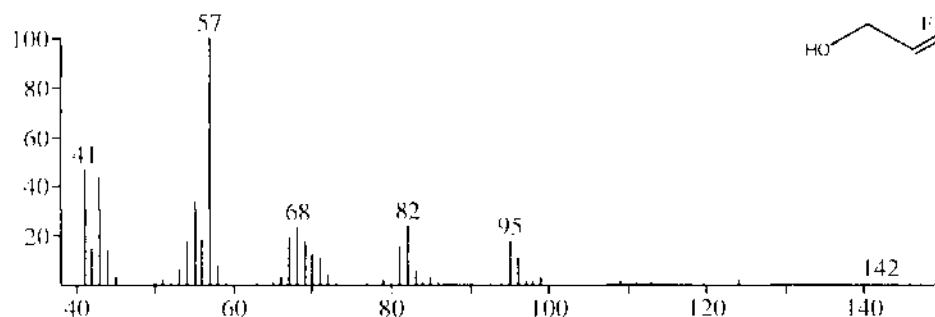
CAS#: 31502-14-4 MF: C₉H₁₈O FW: 142 MSD LIB#: 2082

CN: 2-nonen-1-ol, (2E)-

Synonyms: none

Source: Bedoukian Res. 0.15% *Ruta angustifolia*, JEOR 3:355(1991);

0.04% *Geum montanum*



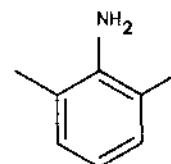
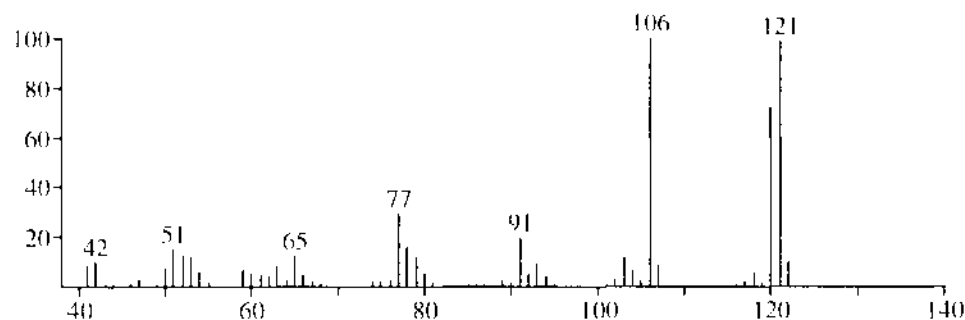
RT: 14.21 AI: 1163 KI: 1167 **Dimethyl aniline <2,6->**

CAS#: 87-62-7 MF: C₈H₁₁N FW: 121 MSD LIB#: 752

CN: benzenamine, 2,6-dimethyl-

Synonyms: 2,6-xylidine; o-xylidine; 2,6-dimethylbenzenamine

Source: Grob mixture for GC, Alltech Assoc



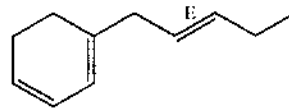
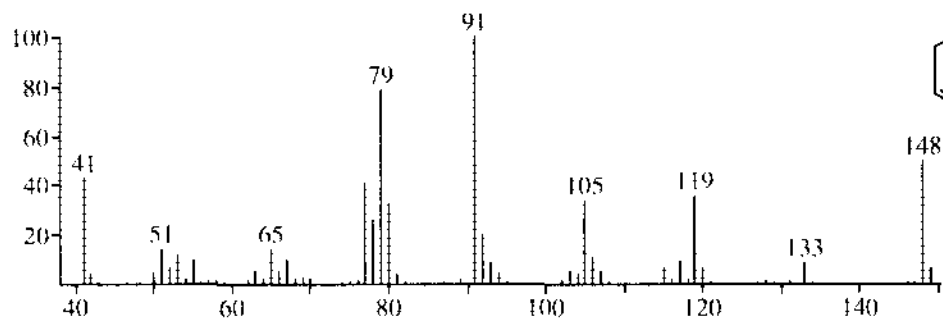
RT: 14.21 Al: 1163 K1: 1167 **Viridene**

CAS#: 83327-43-9 MF: C₁₁H₁₆ FW: 148 MSD LIB#: 1811

CN: 1,3-cyclohexadiene, 1-(2E)-2-pentenyl-

Synonyms: none

Source: *Meum athamanticum* oil ex K-H Kubeczka



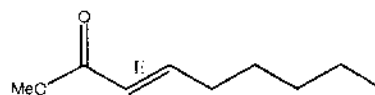
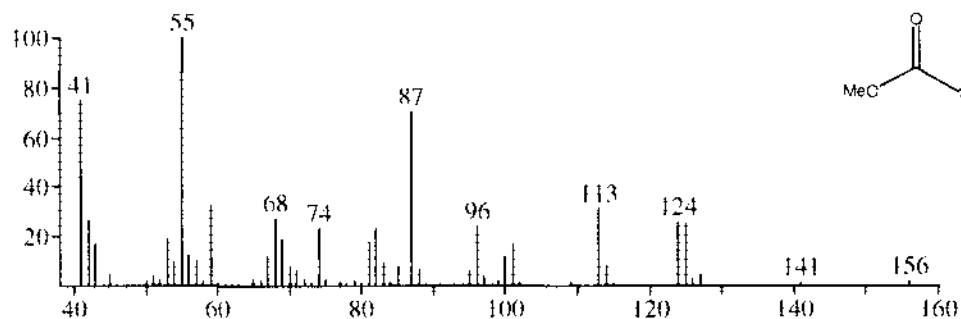
RT: 14.22 Al: 1163 K1: 1167 **Methyl 2-octenoate <(E)->**

CAS#: 7367-81-9 MF: C₉H₁₆O₂ FW: 156 MSD LIB#: 2160

CN: 2-octenoic acid, methyl ester, (2E)-

Synonyms: none

Source: Bedoukian Res.



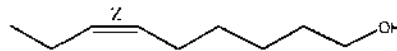
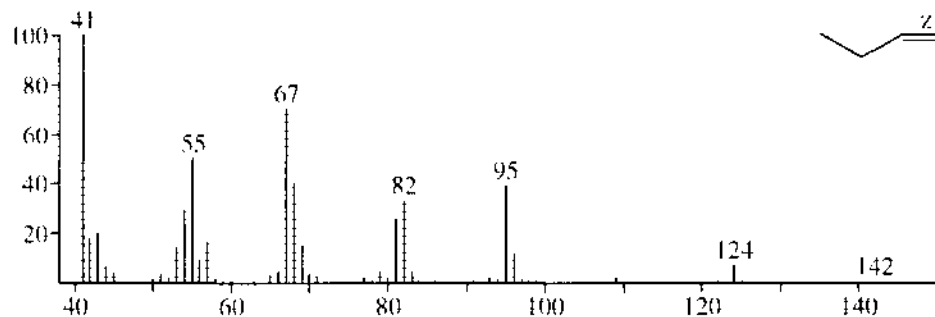
RT: 14.26 Al: 1164 K1: 1168 **Nonenol <(6Z)->**

CAS#: 35854-86-5 MF: C₉H₁₈O FW: 142 MSD LIB#: 2128

CN: 6-nonen-1-ol, (6Z)-

Synonyms: none

Source: Bedoukian Res.



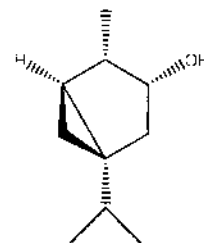
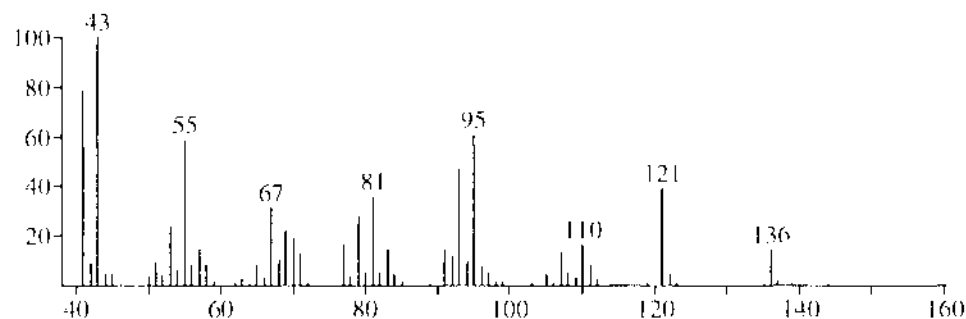
RT: 14.26 AI: 1164 KI: 1168 **Thujanol <3->**

CAS#: 21653-20-3 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1489

CN: bicyclo(3.1.0)hexan-3-ol, 4-methyl 1-(1-methylethyl)-, (1S-(1 α ,3 α ,4 α ,5 α))-

Synonyms: thujol

Source: ref. cpd. ex E. von Rudloff



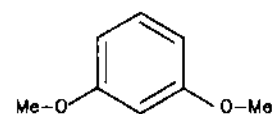
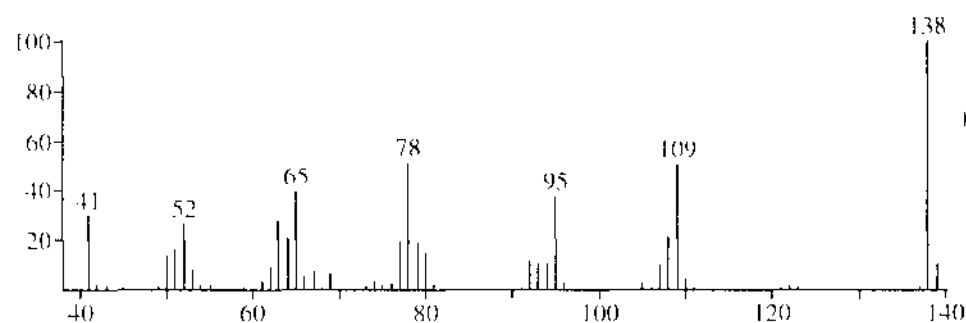
RT: 14.27 AI: 1165 KI: 1168 **Benzene <1,3-dimethoxy->**

CAS#: 151-10-0 MF: C₈H₁₀O₂ FW: 138 MSD LIB#: 275

CN: benzene, 1,3-dimethoxy-

Synonyms: resorcinol dimethyl ether; m-methoxyanisole

Source: H&R ex Jian-Qin Cu, Kunming



RT: 14.29 AI: 1165 KI: 1169 **Borneol**

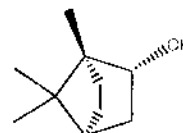
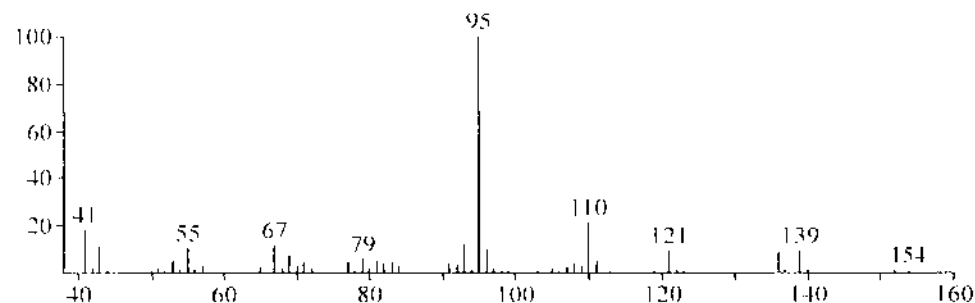
CAS#: 507-70-0 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 315

CN: trimethylbicyclo(2.2.1)heptan-2-ol<endo-1,7,7->

Synonyms: camphol

Source: *Rosmarinus* oil, Firmenich ex A.F. Thomas; *Juniperus* leaf oils;

81.78% *Cinnamomum camphora*, p. 26, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong(1993); 51.56% *Cinnamomum burmannii*; 38.40% *Artemisia annua*



RT: 14.29 AI: 1165 KI: 1169 **Nonanol <n->**

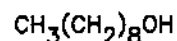
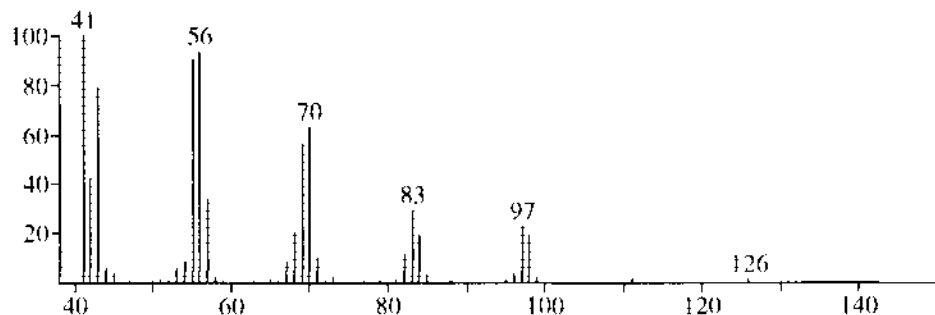
CAS#: 143-08-8 MF: C₉H₂₀O FW: 144 MSD LIB#: 35

CN: 1-nonanol

Synonyms: pelargonic alcohol

Source: ref. cpd. ex E. von Rudloff; 2.02% *Citrus jambhiri*, Scoria, RW et al. p. 441. In: Proc.

First Intl. Citrus Symposium(1969); 1.93% *Nicotiana forgetiana*; 1.60% *Citrus limon* (leaf)



RT: 14.30 AI: 1165 KI: 1169 **Lavandulol**

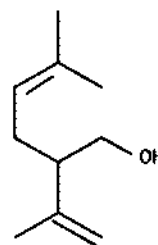
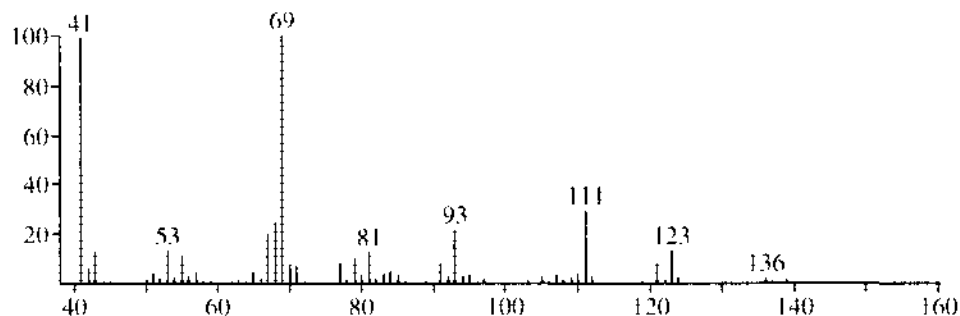
CAS#: 498-16-8 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1928

CN: 4-hexen-1-ol,5-methyl-2-(1-methylethenyl)-

Synonyms: none

Source: *Diplotaenia cachrydifoliae* root oil ex K. Harkiss; 29.17% *Lavandula lanata*,

JEOR 7:279(1995); 7.52% *Lavandula angustifolia*; 1.65% *Valeriana officinalis*



RT: 14.32 AI: 1166 KI: 1170 **Mentha-1,5-dien-8-ol <p->**

CAS#: 1686-20-0 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 901

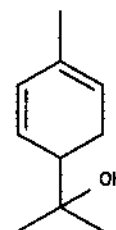
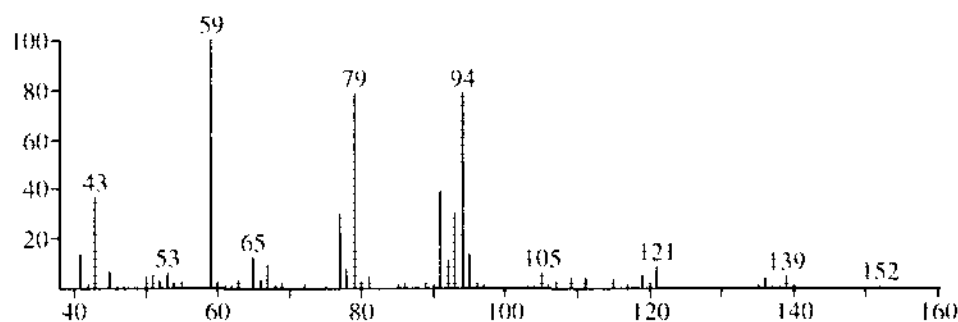
CN: 2,4-cyclohexadiene-1-methanol, α,α,4-trimethyl-

Synonyms: α-phellandren-8-ol

Source: *Juniperus communis* v. *depressa* oil (MA, USA) RP Adams #6052; 0.42% *Cymbopogon jwarancusa*,

p. 317, in: Flav. & Frag.: A World Persp., Lawrence, et al., Proc. 10th Intl. Cong. Ess Oils, Elsevier, Amsterdam(1988);

0.34% *Ribes nigrum*; 0.30% *Achillea wilhelmii*



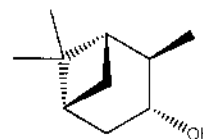
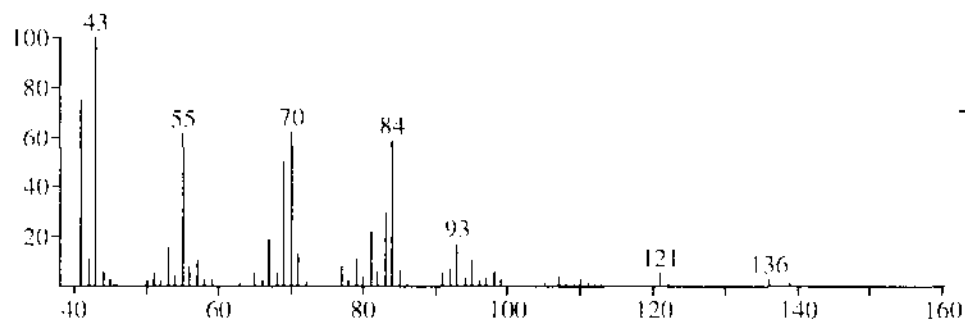
RT: 14.32 AE: 1166 KE: 1170 **Pinocampheol**

CAS#: 25465-95-6 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1304

CN: bicyclo(3.1.1)heptan-3-ol, 2,6,6 trimethyl- (1 α ,2 α ,3 β ,5 α)-

Synonyms: pinanol, 3-

Source: ref. cpd. ex E. von Rudloff



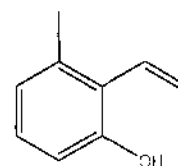
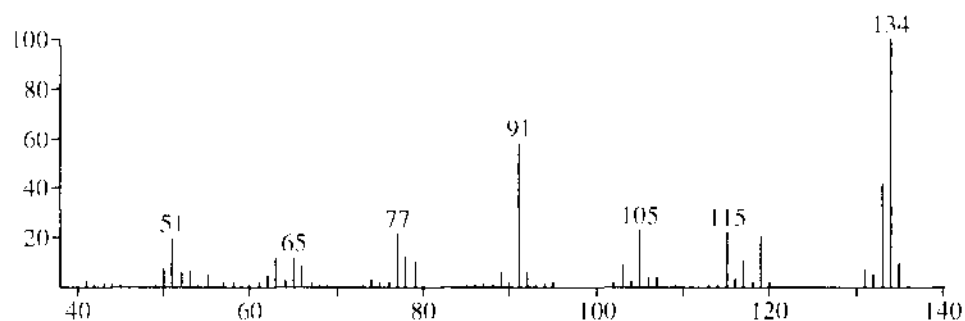
RT: 14.35 AE: 1166 KE: 1170 **Coahuilensol**

CAS#: 214896-23-8 MF: C₉H₁₀O FW: 134 MSD LIB#: 2088

CN: phenol, 2-ethenyl-3-methyl-

Synonyms: none

Source: *Juniperus coahuilensis* v. *arizonica* oil. RP Adams #7637, identified by NMR, Vasu Dev



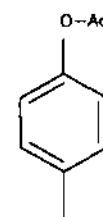
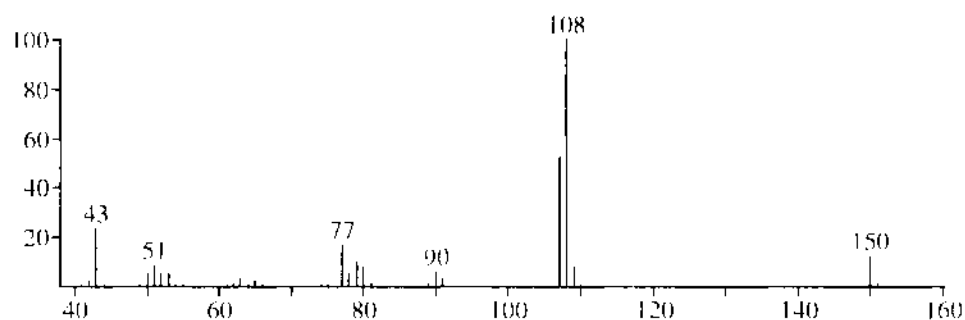
RT: 14.35 AE: 1166 KE: 1170 **Cresol acetate <p>**

CAS#: 140-39-6 MF: C₉H₁₀O₂ FW: 150 MSD LIB#: 1231

CN: acetic acid, 4-methylphenyl ester

Synonyms: cresyl acetate

Source: Pfaltz & Bauer ex H. Hills



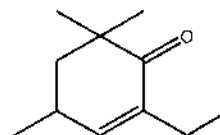
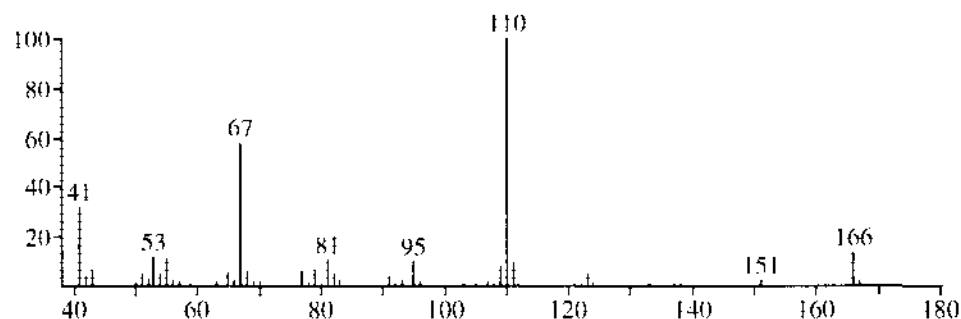
RT: 14.36 AI: 1167 KE: 1170 **Angustifolenone**

CAS#: 122221-94-7 MF: C₁₁H₁₈O FW: 166 MSD LIB#: 263

CN: 2-cyclohexen-1-one, 2-ethyl-4,6,6-trimethyl-

Synonyms: none

Source: *Backhousia angustifolia* ex J.J. Brophy



RT: 14.37 AI: 1167 KE: 1171 **Octanoic acid**

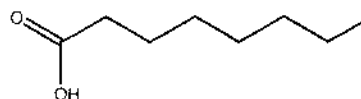
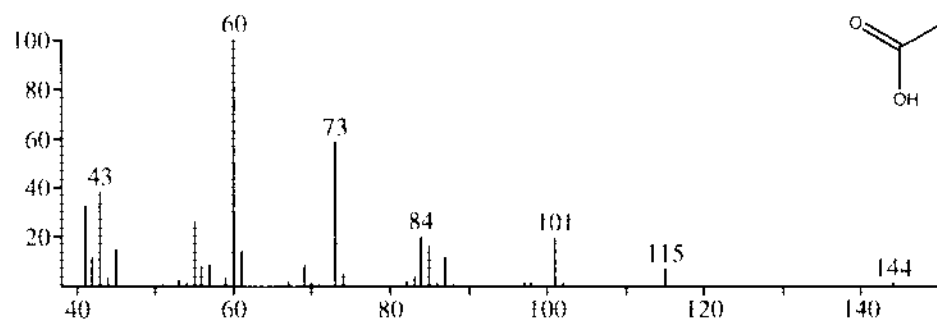
CAS#: 124-07-2 MF: C₈H₁₆O₂ FW: 144 MSD LIB#: 2068

CN: octanoic acid

Synonyms: caprylic acid

Source: Bedoukian Res.; 4.00 *Scleria striatinox* (rhizome), JEOR 8:59(1996);

2.29% *Zizyphus jujuba*; 1.10% *Psidium guajava*



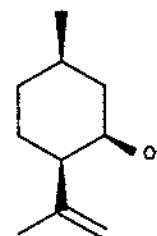
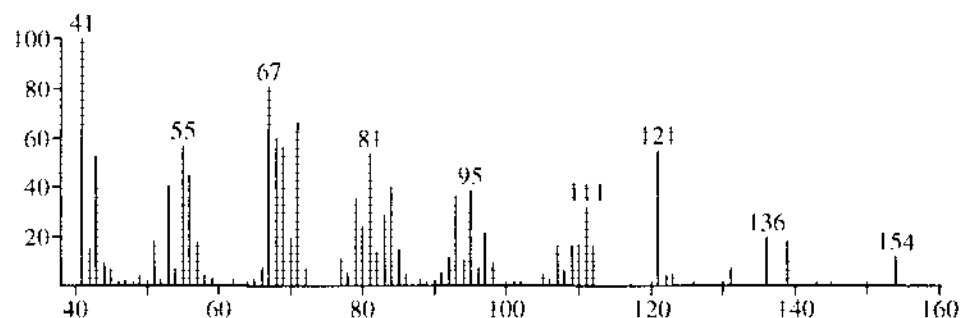
RT: 14.38 AI: 1167 KE: 1171 **Isopulegol <neoiso->**

CAS#: 21290-09-5 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 881

CN: cyclohexanol, 5-methyl-2-(1-methylethenyl)-, (1α,2α,5α)-

Synonyms: none

Source: Aldrich Chem.



RT: 14.38 AI: 1167 KI: 1171 **Umbellulone**

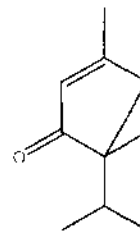
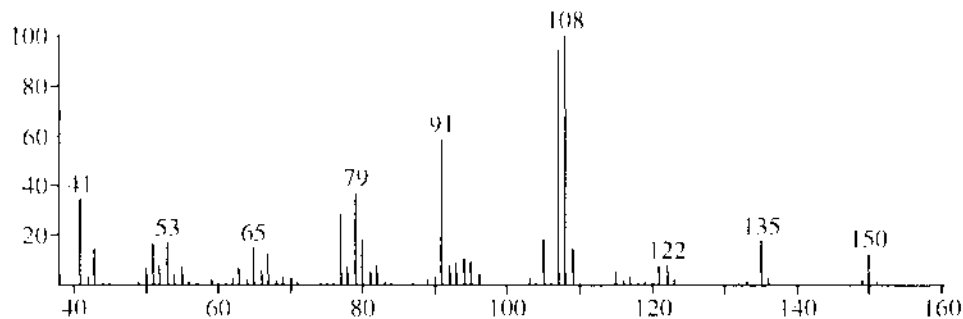
CAS#: 24545-81-1 MF: C₁₀H₁₄O FW: 150 MSD LIB#: 1518

CN: bicyclo(3.1.0)hex-3-en-2-one, 4-methyl-1-(1-methylethyl)-

Synonyms: 3-thujen-2-one

Source: *Umbellularia californica* (California bay), RP Adams #5432: 1.86% *Tanacetum vulgare*,

JEOR 5:629(1993): 0.60% *Eucalyptus globulus*; 0.31% *Artemisia aksaiensis*



RT: 14.39 AI: 1167 KI: 1171 **Menthol**

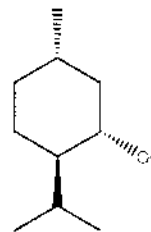
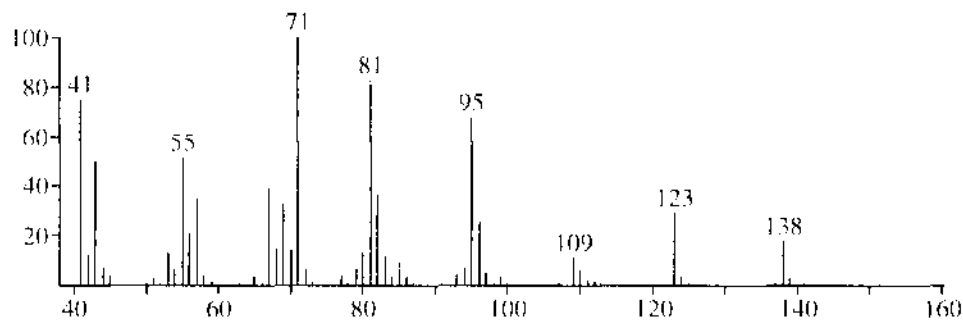
CAS#: 15356-60-2 MF: C₁₀H₂₀O FW: 156 MSD LIB#: 1258

CN: cyclohexanol, 5-methyl-2-(1-methylethyl)-, (1 α ,2 β ,5 α)-

Synonyms: peppermint camphor; menthacamphor

Source: Peppermint oil, McCormick Co.: 85.00% *Mentha arvensis*, p. 21, in: Studies on the Alteration of Essential Oil Composition, S. Ono, 9th Intl. Cong. of Ess. Oils, Singapore(1983);

77.61% *Mentha haplocalyx*; 69.76% *Mentha x verticillata*



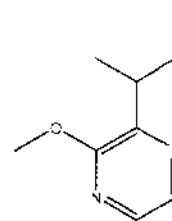
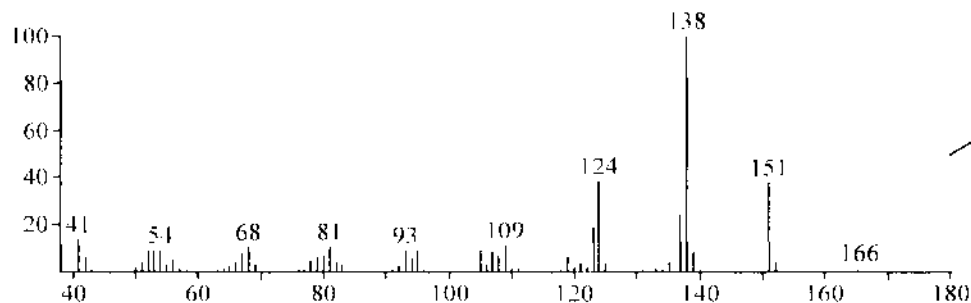
RT: 14.42 AI: 1168 KI: 1172 **Methoxy-3-(1-methylpropyl)pyrazine <2->**

CAS#: 24168-70-5 MF: C₉H₁₄N₂O FW: 166 MSD LIB#: 1646

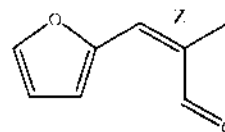
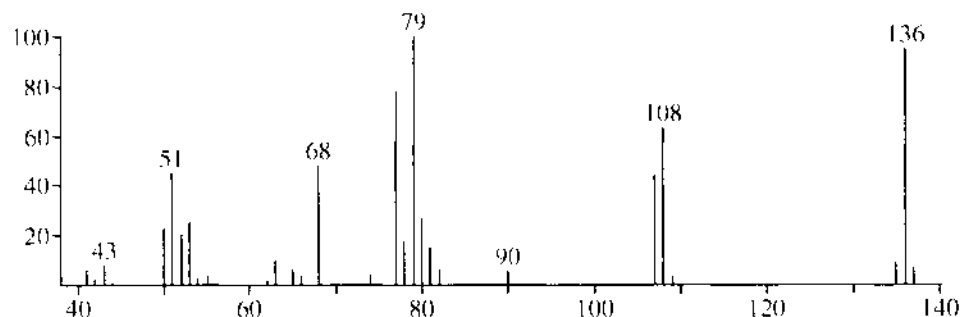
CN: Pyrazine, 2-methoxy-3-(1-methylpropyl)-

Synonyms: none

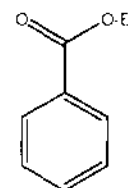
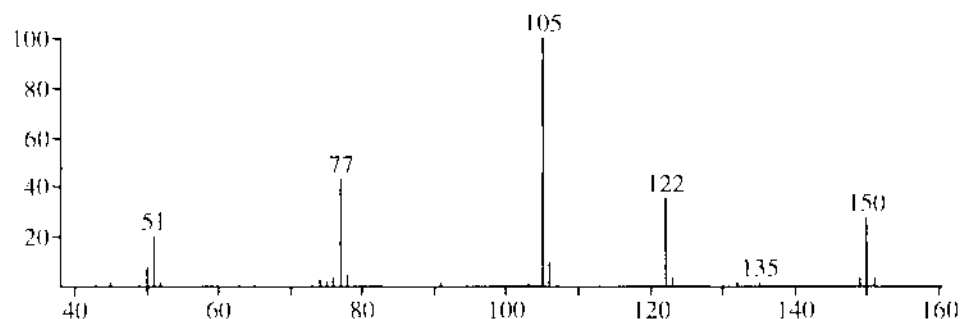
Source: Aldrich Chem.



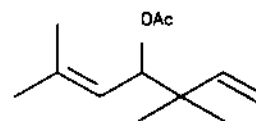
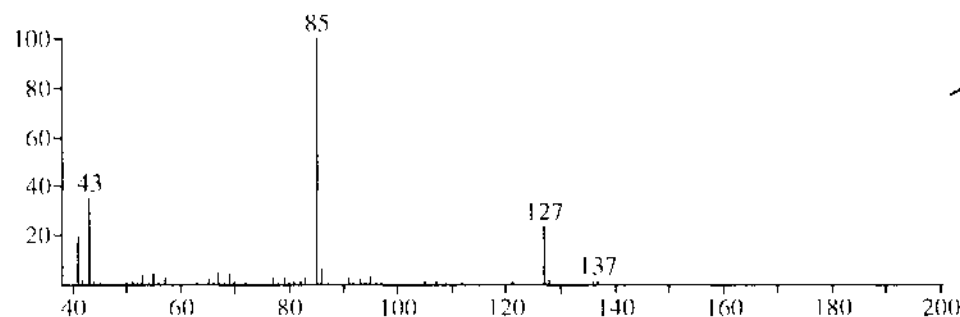
RT: 14.43 AE: 1168 KE: 1172 **Methyl-3(2-furyl)acrolein <(2Z)->**
 CAS#: 000 00-0 MF: C₈H₈O₂ FW: 136 MSD LIB#: 2023
 CN: 2-propenal, 3-(2-furanyl)-2-methyl-, (2Z)-
 Synonyms: none
 Source: Bedoukian Res. ex JJ Brophy



RT: 14.47 AE: 1169 KE: 1173 **Ethyl benzoate**
 CAS#: 93-89-0 MF: C₉H₁₀O₂ FW: 150 MSD LIB#: 664
 CN: benzoic acid, ethyl ester
 Synonyms: benzyl ethyl ether
 Source: Aldrich Chem.; 12.50% *Lilium candidum*; p 415, in: Flav. & Frag.: A World Persp., Lawrence, et al., 10th Intl. Cong. of Ess. Oils, Elsevier, Amsterdam(1988); 1.00% *Artemisia monosperma*; 1.00% *Acacia praecox* (flower)



RT: 14.48 AE: 1169 KE: 1173 **Artemisyl acetate**
 CAS#: 3465-88-1 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 225
 CN: 1,5-heptadien-4-ol, 3,3,6-trimethyl-, acetate, (S)-
 Synonyms: artemisia acetate <β->
 Source: *Artemisia tridentata*, SLC, UT ex P. Weyerstahl; 3.00% *Artemisia vestita*, Proc. 11th Intl. Cong. of Ess. Oils 4:127(1989), New Delhi, India; 1.70% *Artemisia persica*; 1.50% *Artemisia judaica*



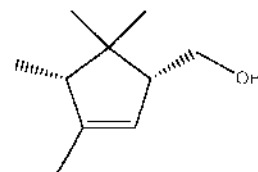
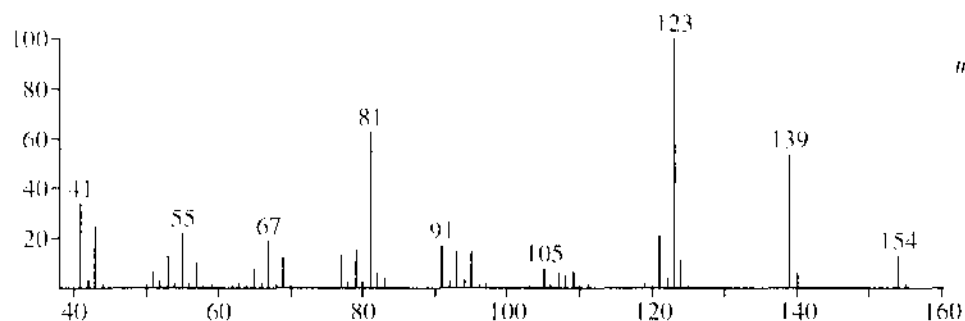
RT: 14.48 AI: 1169 KI: 1173 **Necrodol <cis-α>**

CAS#: 187663-98-5 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 2096

CN: 2-cyclopentene-1-methanol, 3,4,5,5-tetramethyl-, cis-

Synonyms: none

Source: *Lavandula luisieri*, ex Nicolas Baldovini



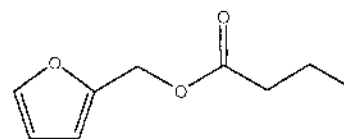
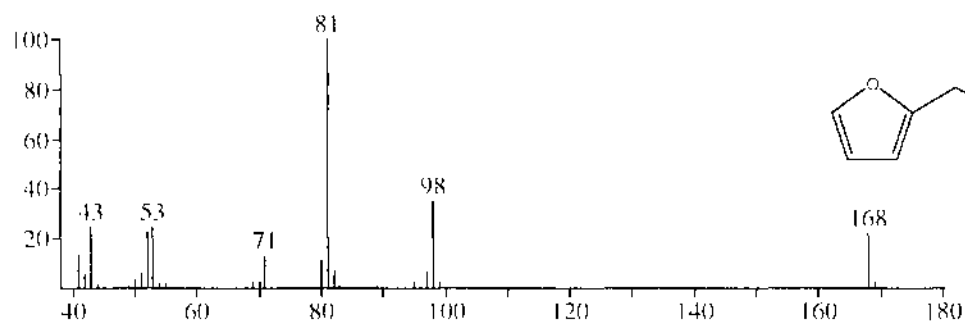
RT: 14.50 AI: 1170 KI: 1173 **Furfuryl butanoate**

CAS#: 623-21-2 MF: C₉H₁₂O₃ FW: 168 MSD LIB#: 82

CN: butanoic acid, 2-furanylmethyl ester

Synonyms: furfuryl butyrate

Source: Aldrich Chem.



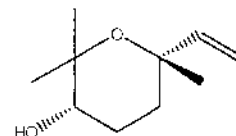
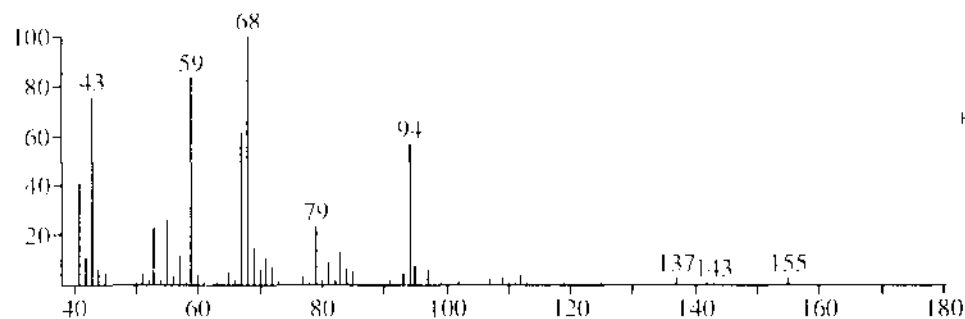
RT: 14.52 AI: 1170 KI: 1174 **Linalool oxide <cis> (pyranoid)**

CAS#: 14009-71-3 MF: C₁₀H₁₈O₂ FW: 170 MSD LIB#: 1010

CN: 2H-pyran-3-ol, 6-ethenyltetrahydro-2,2,6-trimethyl-, cis-

Synonyms: (Z)-pyranoid linalool oxide; linalool oxide D

Source: *Clarkia breweri* flower oil ex RA Raguso, Ariz.(ex Flath, USDA)



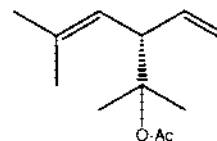
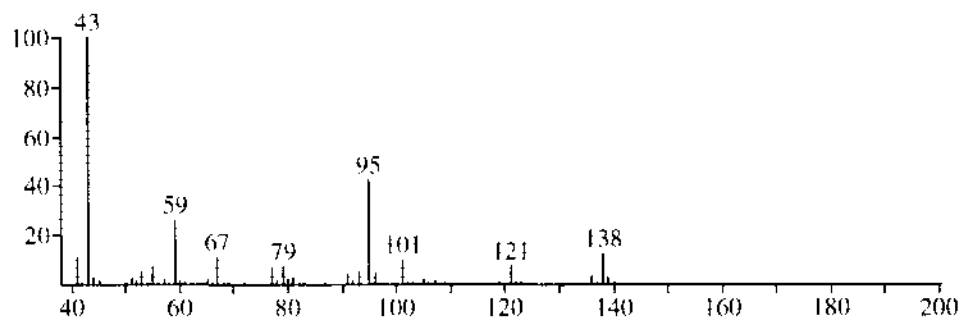
RT: 14.54 AI: 1171 KI: 1174 **Santolinyl acetate**

CAS#: 79507-88-3 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 233

CN: 4-hexen-2-ol, 3-ethenyl-2,5-dimethyl-, acetate, (S)-

Synonyms: none

Source: *Artemisia vestita* oil ex P. Weyerstahl



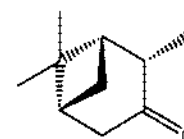
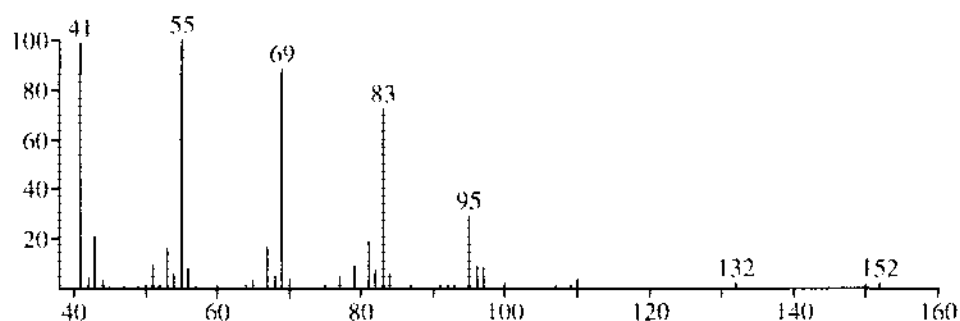
RT: 14.57 AI: 1172 KI: 1175 **Pinocamphone <cis->**

CAS#: 15358-88-0 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1306

CN: bicyclo[3.1.1]heptan-3-one, 2,6,6-trimethyl- (1 α ,2 β ,5 α)-

Synonyms: isopinocamphone

Source: ref. cpd. ex P. Weyerstahl



RT: 14.60 AI: 1172 KI: 1176 **Phenyl ethyl formate <2->**

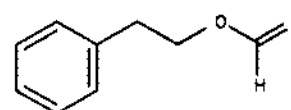
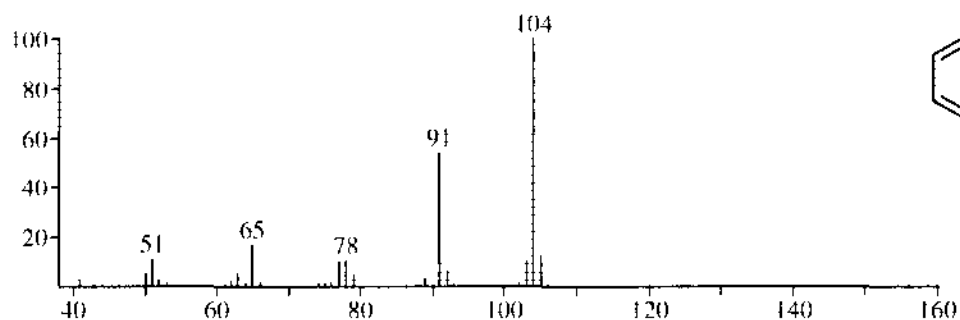
CAS#: 104-62-1 MF: C₉H₁₀O₂ FW: 150 MSD LIB#: 1278

CN: formic acid, 2-phenylethyl ester

Synonyms: benzylcarbonyl formate

Source: ICN Chem. ex Art Tucker: 0.93% *Gardenia jasminoides* (absolute).

JEOR 8:281(1996); 0.10% *Narcissus tazetta* (absolute); 0.10% *Hyacinthus orientalis*



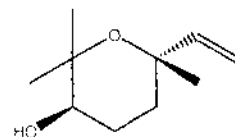
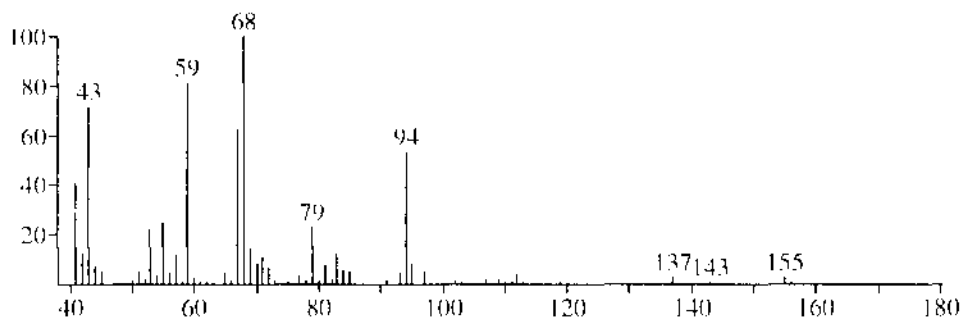
RT: 14.64 AI: 1173 KI: 1176 **Linalool oxide <trans> (pyranoid)**

CAS#: 41720-62-1 MF: C₁₀H₁₈O₂ FW: 170 MSD LIB#: 462

CN: 2H-pyran-3-ol, 6-ethenyltetrahydro-2,2,6-trimethyl-, (3R-trans)-

Synonyms: linalool oxide C

Source: *Clarkia breweri* flower oil ex RA Raguso; 12.21% *Magnolia purpurella*, L-F, Zhu et al., p. 204 in Aromatic Plants and Essential Constituents, Peace Book Co, Hong Kong (1993); 2.00% *Lavendula angustifolia*; 1.66% *Clerodendrum fragrans*



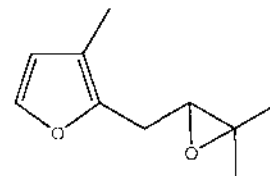
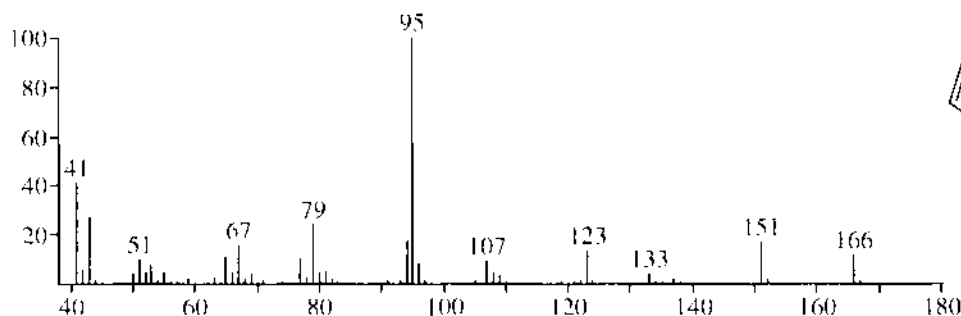
RT: 14.65 AI: 1173 KI: 1177 **Rosefuran epoxide**

CAS#: 92356-06-4 MF: C₁₀H₁₄O₂ FW: 166 MSD LIB#: 657

CN: furan, 2-[(3,3-dimethyloxiranyl)methyl]-3-methyl-

Synonyms: none

Source: *Elsholtzia densa* oil ex Vasu Dev; 0.40% *Aloysia triphylla*, JEOR 8:581(1996); 0.05% *Agastache rugosa* (leaf); 0.03% *Bonea macrophylla*



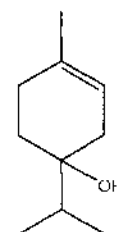
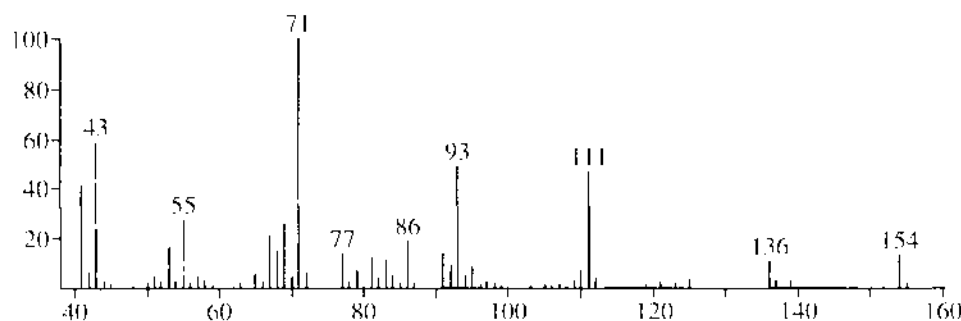
RT: 14.66 AI: 1174 KI: 1177 **Terpinen-4-ol**

CAS#: 562-74-3 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 910

CN: 3-cyclohexen-1-ol, 4-methyl-1-(1-methylethyl)-

Synonyms: 4-terpineol; p-menth-1-en-4-ol; 4-carvomenthenol

Source: *Juniperus lucayana* leaf oil, RP Adams #2863; 46.10% *Melaleuca parviflora*, JEOR 6:419(1994); 45.65% *Melaleuca alternifolia*; 36.30% *Majorana hortensis*



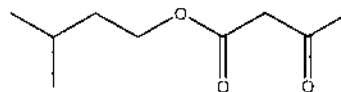
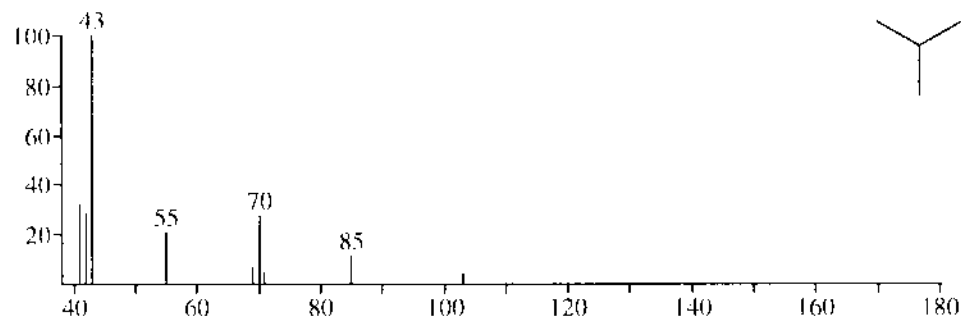
RT: 14.72 AI: 1175 KI: 1178 **Isoamyl acetoacetate**

CAS#: 2308-18-1 MF: C₉H₁₆O₃ FW: 172 MSD LIB#: 1599

CN: butanoic acid, isopentyl ester

Synonyms: isopentyl acetoacetate

Source: Aldrich Chem.



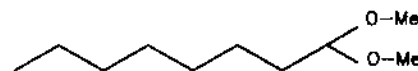
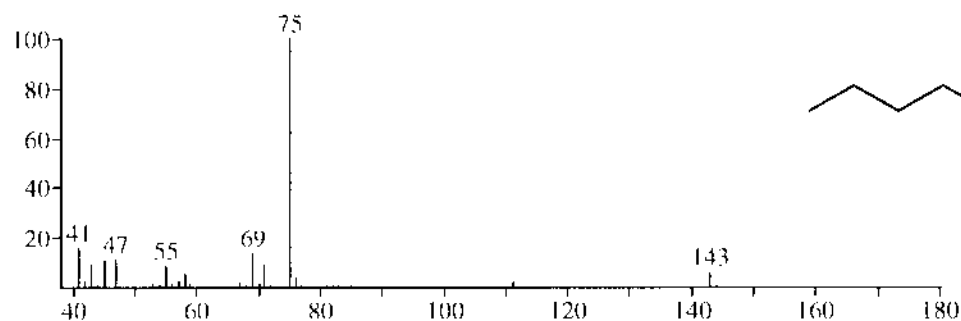
RT: 14.72 AI: 1175 KI: 1178 **Octane <1,1-dimethoxy->**

CAS#: 10022-28-3 MF: C₁₀H₂₂O₂ FW: 174 MSD LIB#: 1201

CN: octane, 1,1-dimethoxy-

Synonyms: octane, dimethyl acetal

Source: ref. cpd. ex Art Tucker



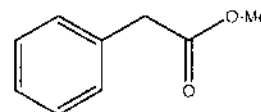
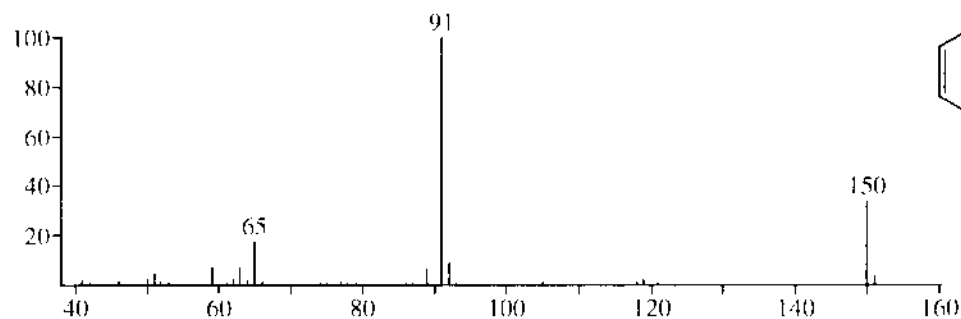
RT: 14.73 AI: 1175 KI: 1178 **Benzene acetic acid, methyl ester**

CAS#: 101-41-7 MF: C₉H₁₀O₂ FW: 150 MSD LIB#: 271

CN: benzene acetic acid, methyl ester

Synonyms: methyl phenylacetate; methyl α-toluate

Source: Pfaltz & Bauer ex H. L. Hills



RT: 14.76 AI: 1176 KI: 1179 **Diethyl succinate**

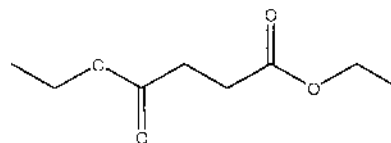
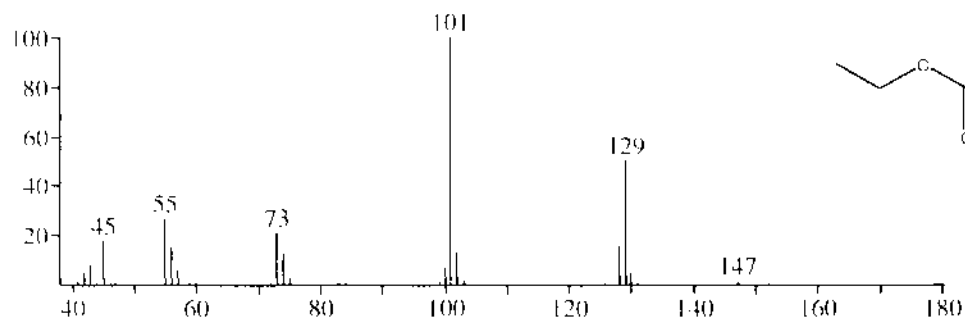
CAS#: 123-25-1 MF: C₈H₁₄O₄ FW: 174 MSD LIB#: 321

CN: butanedioic acid, diethyl ester

Synonyms: succinic acid, diethyl ester; diethyl butanedioate

Source: Pfaltz & Bauer ex Art Tucker; 0.30% *Couroupita guianensis* (flower).

JEOR 7:225(1995)



RT: 14.78 AI: 1176 KI: 1179 **Cymen-8-ol <meta->**

CAS#: 5208-37-7 MF: C₁₀H₁₄O FW: 150 MSD LIB#: 932

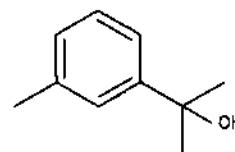
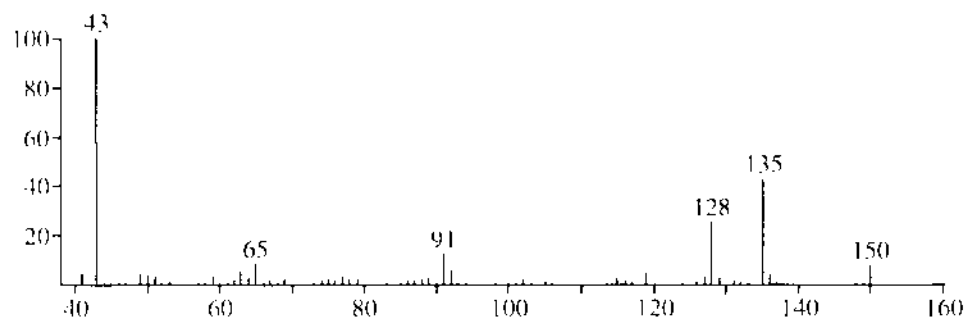
CN: benzenemethanol, $\alpha,\alpha,3$ -trimethyl-

Synonyms: 2-(3-tolyl)-2-propanol

Source: *Juniperus procera* leaf, RP Adams #5530; 0.26% *Ribes nigrum*.

p. 375, in: Flav. & Frag.: A World Persp., Lawrence, et al (eds.), Proc. 10th Intl. Cong. Ess. Oils.

Elsevier, Amsterdam; 0.23% *Angelica archangelica*; 0.21% *Cymbopogon jwarancusa*



RT: 14.78 AI: 1176 KI: 1179 **Pinocampheol <iso->**

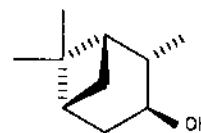
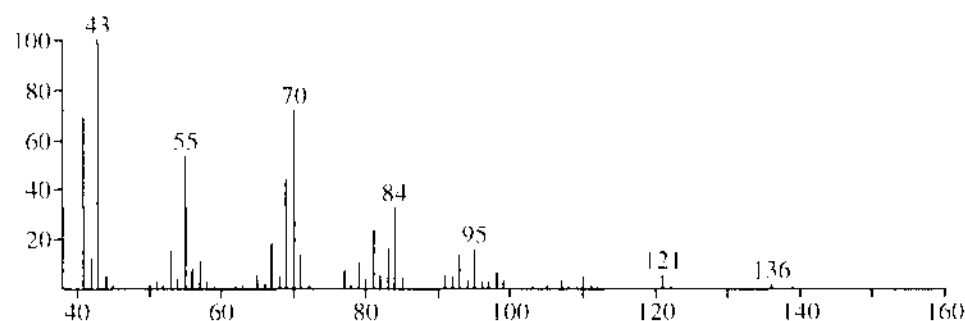
CAS#: 27779-29-9 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1305

CN: bicyclo(3.1.1)heptan-3-ol, 2,6,6-trimethyl-, (1 α ,2 β ,3 α ,5 α)

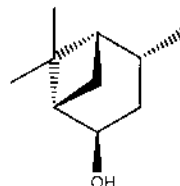
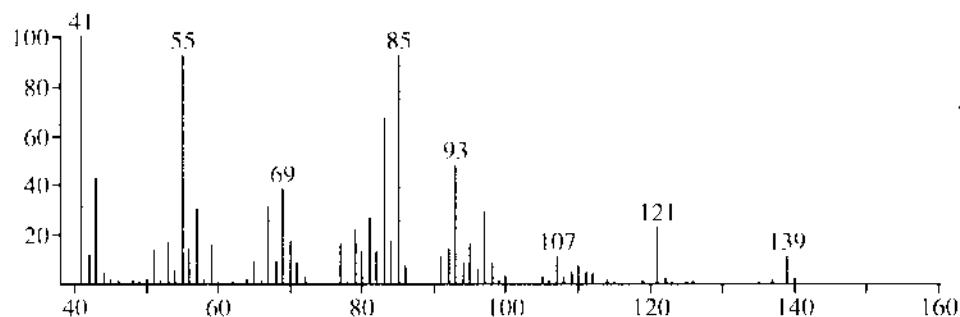
Synonyms: none

Source: ref. epd. ex E. von Rudloff; 0.50% *Juniperus martinezii*, JEOR 2:99(1990);

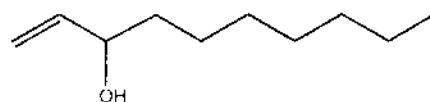
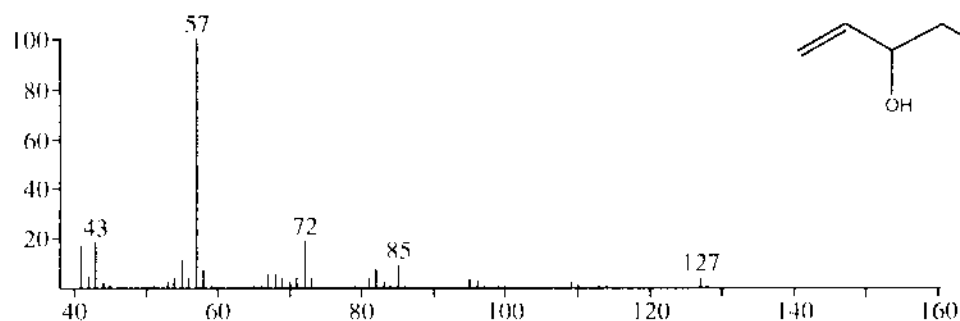
0.50% *Juniperus flaccida*; 0.35% *Hyssopus officinalis*



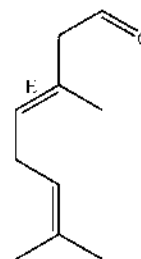
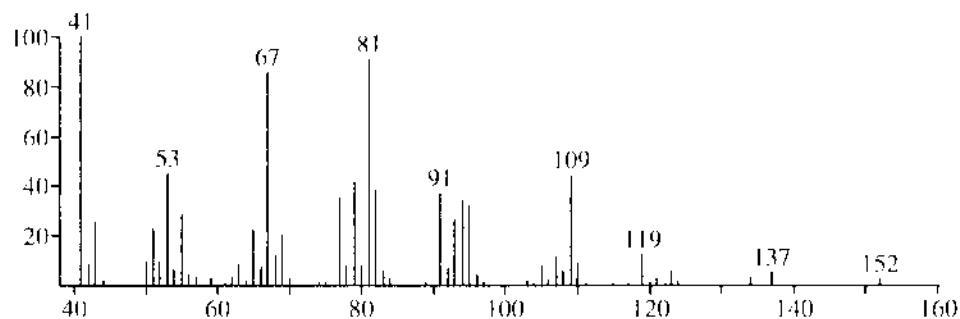
RT: 14.78 AI: 1176 KI: 1179 **Verbanol <iso->**
 CAS#: 94480-80-5 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1544
 CN: bicyclo(3.1.1)heptan-2-ol, 4,6,6-trimethyl-, (1*a*,2*a*,4*β*,5*a*)-
 Synonyms: none
 Source: ref. cpd. ex E. von Radloff



RT: 14.79 AI: 1177 KI: 1180 **Dec-1-en-3-ol**
 CAS#: 51100-54-0 MF: C₁₀H₂₀O FW: 156 MSD LIB#: 2052
 CN: 1-decen-3-ol
 Synonyms: none
 Source: Bedoukian Res.: 2.50% *Alpinia katsumadai*, JEOR 2:259(1990)



RT: 14.82 AI: 1177 KI: 1180 **Isocitral <(E)->**
 CAS#: 55722-59-3 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1728
 CN: 3,6-octadienal, 3,7-dimethyl-, (3*E*)-
 Synonyms: none
 Source: *Backhousia citriodora* oil ex. Ian Southwell



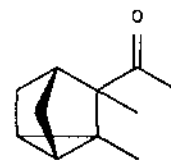
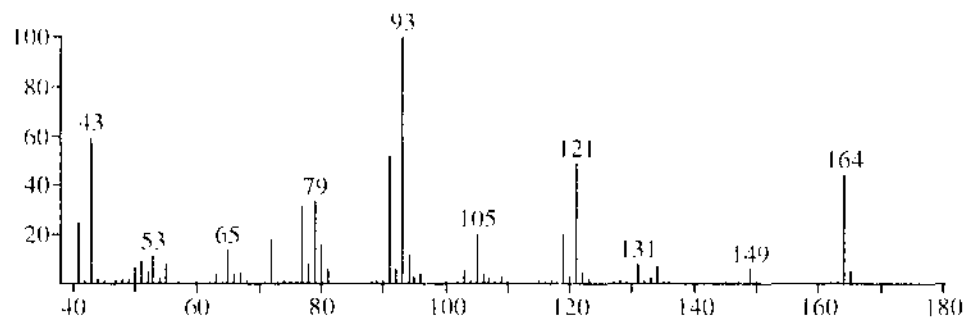
RT: 14.82 AI: 1177 KE: 1180 **Santalone**

CAS#: 59300-51-5 MF: C₁₁H₁₆O FW: 164 MSD LIB#: 1396

CN: ethanone, 1-(2,3-dimethyltricyclo(2.2.1.0^{2,6})hept-3-yl)-

Synonyms: none

Source: acetylation of sandalwood oil (5491)



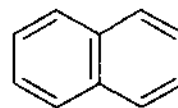
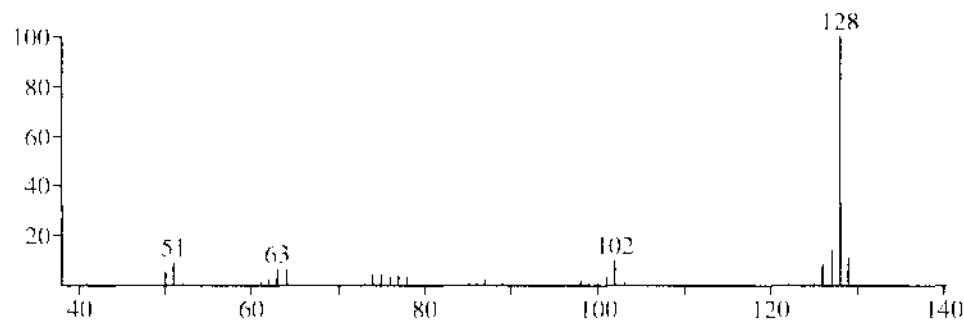
RT: 14.84 AI: 1178 KE: 1181 **Naphthalene**

CAS#: 91-20-3 MF: C₁₀H₈ FW: 128 MSD LIB#: 91

CN: naphthalene

Synonyms: moth flakes, tar camphor

Source: Sigma Chem.: 2.30% *Plumeria rubra*, p. 89, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong (1993); 1.52% *Artemisia atrovirens*; 1.00% *Rhus coriaria*



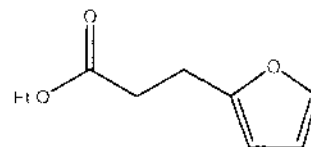
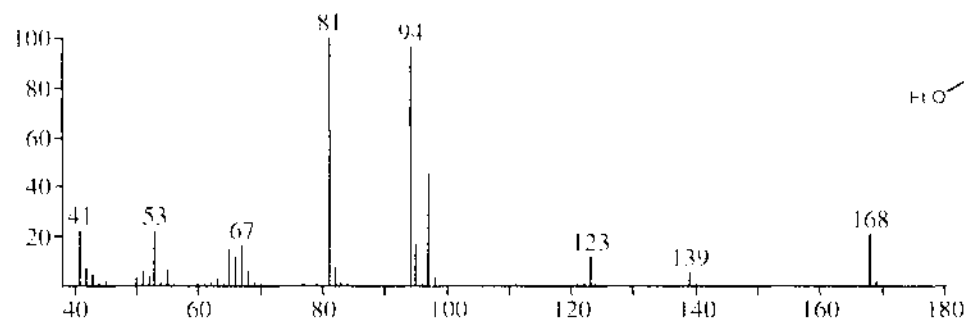
RT: 14.85 AI: 1178 KE: 1181 **Ethyl-3(2-furyl)-propanoate**

CAS#: 10031-90-0 MF: C₉H₁₂O₃ FW: 168 MSD LIB#: 686

CN: 2-furanpropanoic acid, ethyl ester

Synonyms: ethyl β-furylpropionate

Source: Redoukian Res. ex Art Tucker



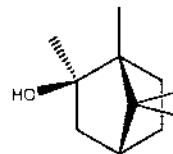
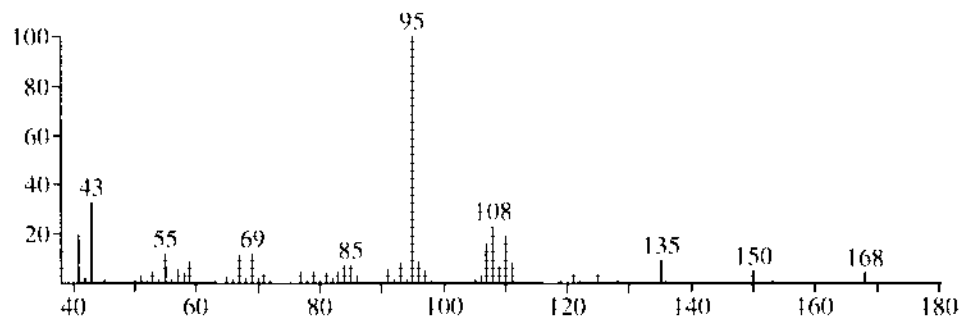
RT: 14.85 AI: 1178 KI: 1181 **Methyl isoborneol <2->**

CAS#: 2371-42-8 MF: C₁₁H₂₀O FW: 168 MSD LIB#: 1769

CN: bicyclo(2.2.1)heptan-2-ol, 1,2,7,7-tetramethyl-, (1R,2R,4R)

Synonyms: 2-norbornanol, 1,2,7,7-tetramethyl-

Source: Supelco Inc.



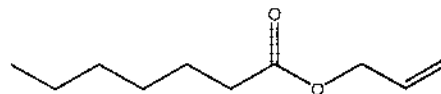
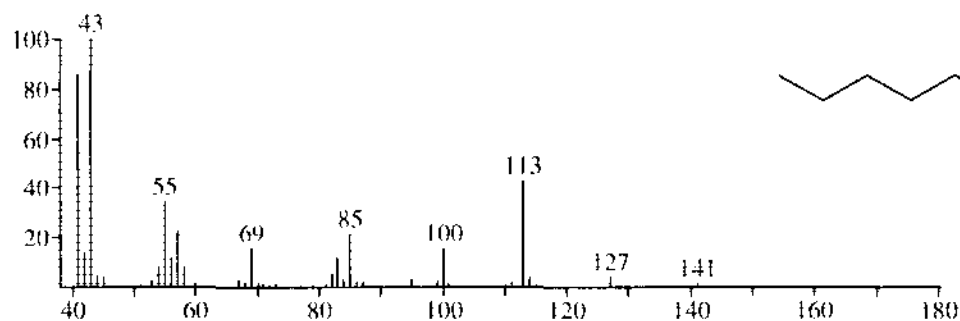
RT: 14.86 AI: 1178 KI: 1181 **Allyl heptanoate**

CAS#: 142-19-8 MF: C₁₀H₁₈O₂ FW: 170 MSD LIB#: 110

CN: heptanoic acid, 2-propenyl ester

Synonyms: allyl enanthate; 2-propenyl heptanoate

Source: Aldrich Chem.



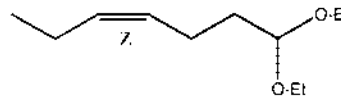
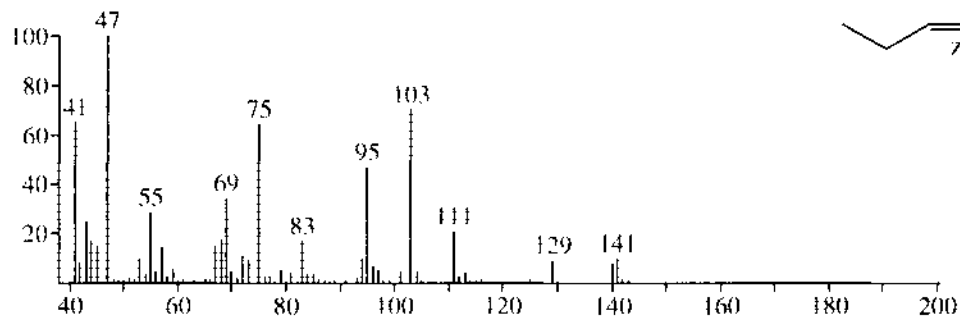
RT: 14.89 AI: 1179 KI: 1182 **Heptenal <(4Z)->, diethyl acetal**

CAS#: 18492-65-4 MF: C₁₁H₂₂O₂ FW: 186 MSD LIB#: 791

CN: 3-heptene, 7,7-diethoxy-, (Z)-

Synonyms: none

Source: Bedoukian Res. ex Art Tucker

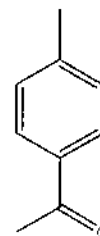
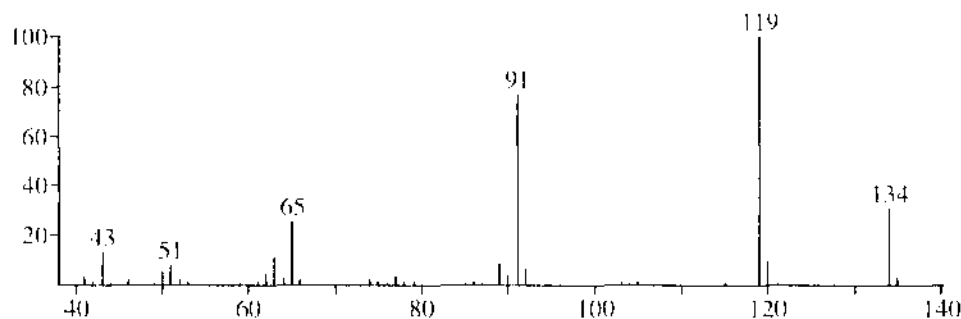


RT: 14.91 AI: 1179 KI: 1182 **Acetophenone <p-methyl->**CAS#: 122-00-9 ME: C₉H₁₀O FW: 134 MSD LIB#: 9

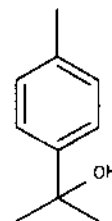
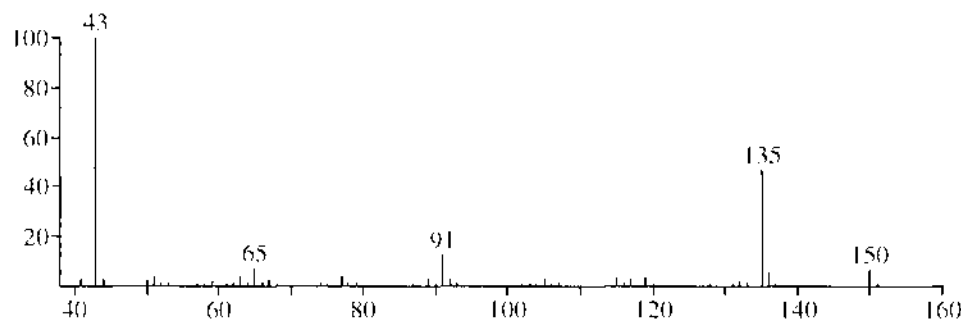
CN: ethanone, 1-(4-methylphenyl)-

Synonyms: none

Source: ICN Chem. ex Art Tucker

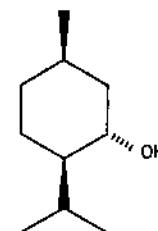
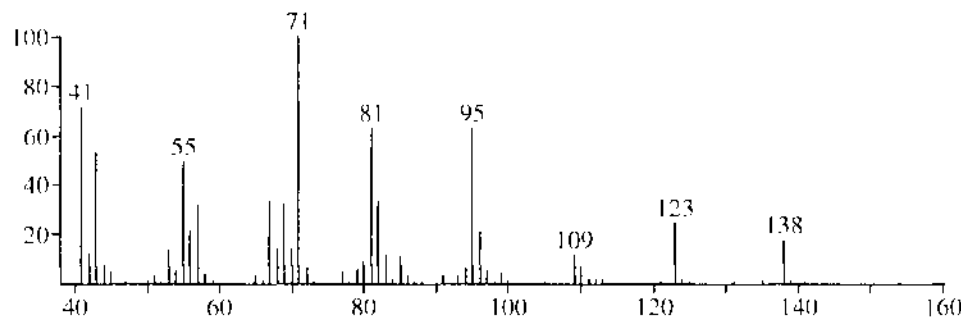
RT: 14.91 AI: 1179 KI: 1182 **Cymen-8-ol <p->**CAS#: 1197-01-9 ME: C₁₀H₁₄O FW: 150 MSD LIB#: 548CN: benzenemethanol, α,α -4-trimethyl-

Synonyms: 8-hydroxy-p-cymene

Source: Roure Bertrand ex H. Hills; 4.10% *Abies holophylla*, p.114; in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong (1993);3.66% *Thymus mongolicus*; 2.00% *Triphasia trifolia*RT: 14.91 AI: 1179 KI: 1182 **Menthol <iso->**CAS#: 490-99-3 ME: C₁₀H₂₀O FW: 156 MSD LIB#: 1259CN: cyclohexanol, 5-methyl-2-(1-methylethyl)-, (1 α ,2 β ,5 β)-

Synonyms: menthol, trans-1,3,cis-1,4-

Source: Peppermint oil, McCormick Co.



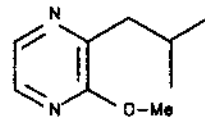
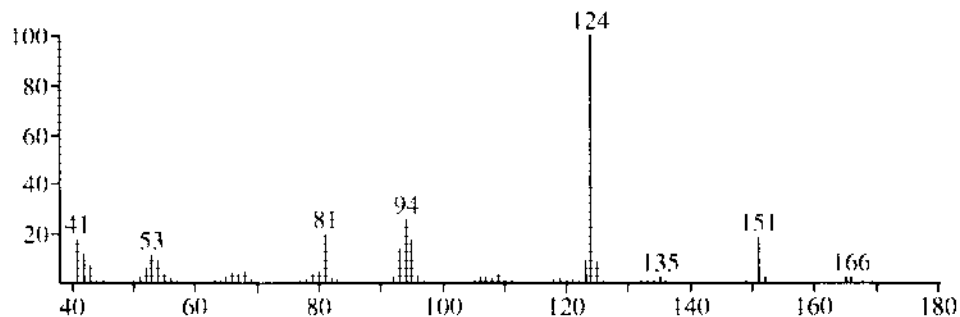
RT: 14.91 AI: 1179 KI: 1182 **Pyrazine <2-methoxy-3-(2-methylpropyl)->**

CAS#: 24683-00-9 MF: C₉H₁₄N₂O FW: 166 MSD LIB#: 65

CN: pyrazine, 2-methoxy-3-(2-methylpropyl)-

Synonyms: 2-isobutyl-3-methoxypyrazine

Source: Aldrich Chem.



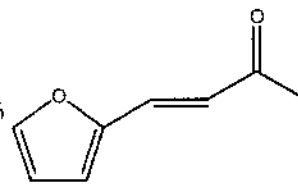
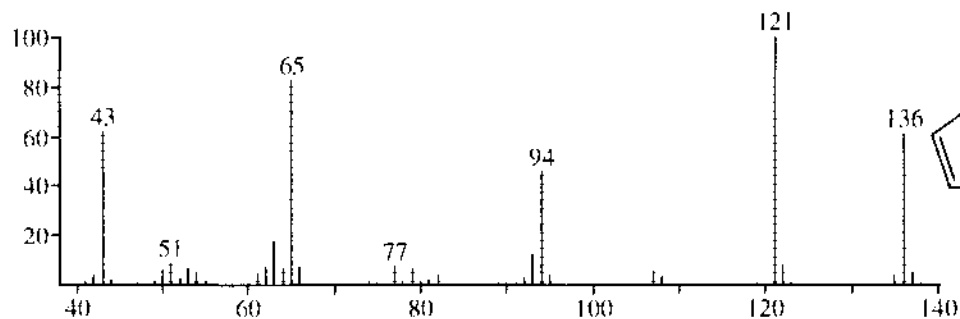
RT: 14.94 AI: 1180 KI: 1183 **Furfuryl acetone**

CAS#: 623-15-4 MF: C₈H₈O₂ FW: 136 MSD LIB#: 2065

CN: 3-buten-2-one, 4-(2-furanyl)-

Synonyms: buten-2-one, 4-(2-furyl)-3-; furfurylidenacetone

Source: Bedoukian Res.



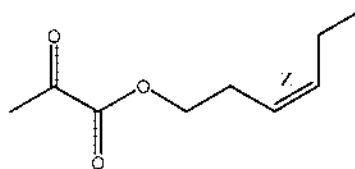
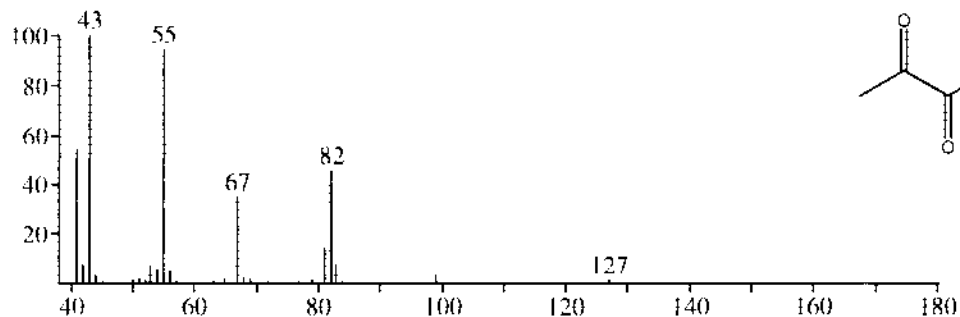
RT: 14.99 AI: 1181 KI: 1184 **Hexenyl pyruvate <(3Z)->**

CAS#: 68133-76-6 MF: C₉H₁₄O₃ FW: 170 MSD LIB#: 2043

CN: propanoic acid, 2-oxo-, (3Z)-3-hexenyl ester

Synonyms: none

Source: Bedoukian Res.



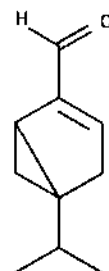
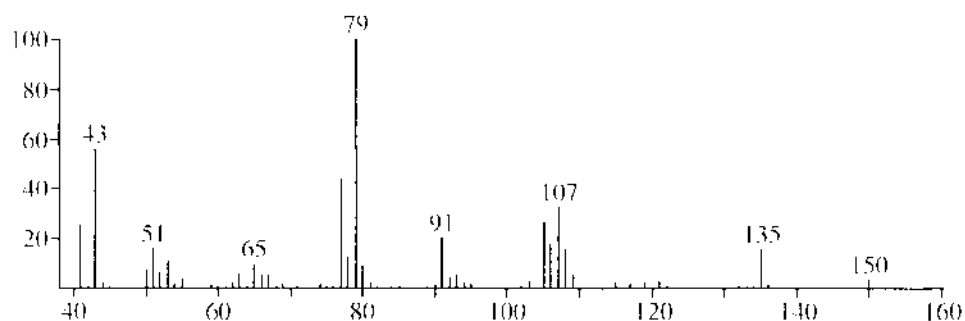
RT: 14.99 AI: 1181 KI: 1184 **Thuj-3-en-10-al**

CAS#: 57129-54-1 MF: C₁₀H₁₄O FW: 150 MSD LIB# 215

CN: bicyclo(3.1.0)hex-2-ene-2-carboxaldehyde, 5-(1-methylethyl)-

Synonyms: thujenal

Source: *Artemisia persica* oil ex P. Weyerstahl; 0.86% *Artemisia persica*, JFOR 4:1(1992)



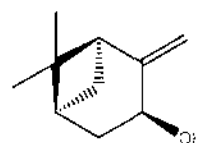
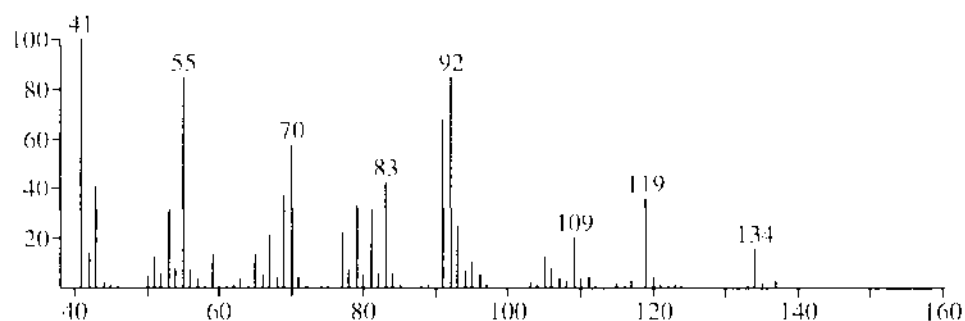
RT: 15.00 AI: 1182 KI: 1184 **Pinocarveol <cis->**

CAS#: 19889-99-7 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1308

CN: bicyclo(3.1.1)heptan-3-ol, 6,6-dimethyl-2-methylene-, (1S-(1 α ,3 β ,5 α))

Synonyms: pinen-3-ol, 2(10)-, (1S,3S,5S)-

Source: ref. cpd. ex E. von Rudloff; 1.00% *Cyperus scariosus*, Proc. 11th Intl. Cong. of Ess. Oils, New Delhi, India 4:161(1989); 0.01% *Pinus pinaster*; 0.01% *Artemisia roxburghiana*



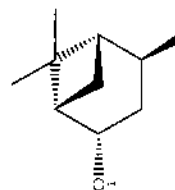
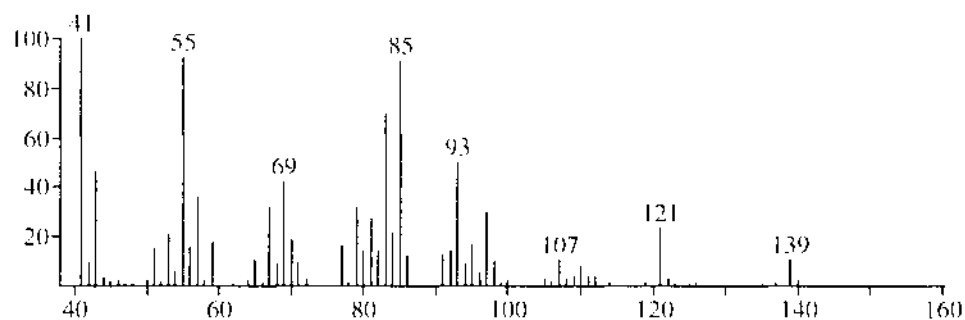
RT: 15.01 AI: 1182 KI: 1184 **Verbanol <neo->**

CAS#: 94480-82-7 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1545

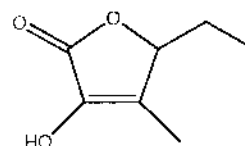
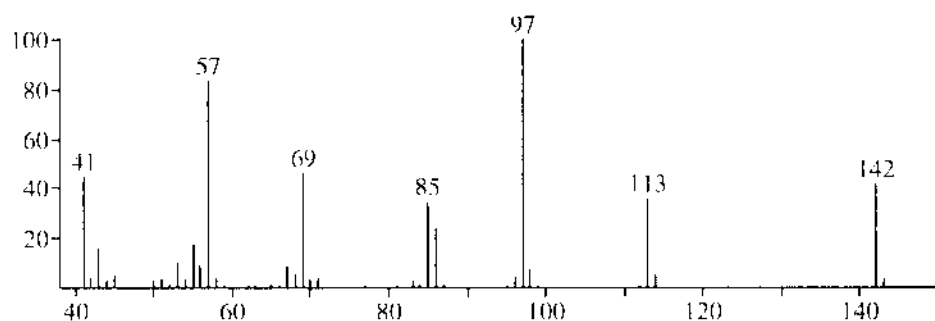
CN: bicyclo(3.1.1)heptan-2-ol, 4,6,6-trimethyl-, (1 α ,2 β ,4 α ,5 α)-

Synonyms: none

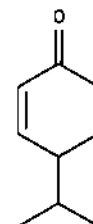
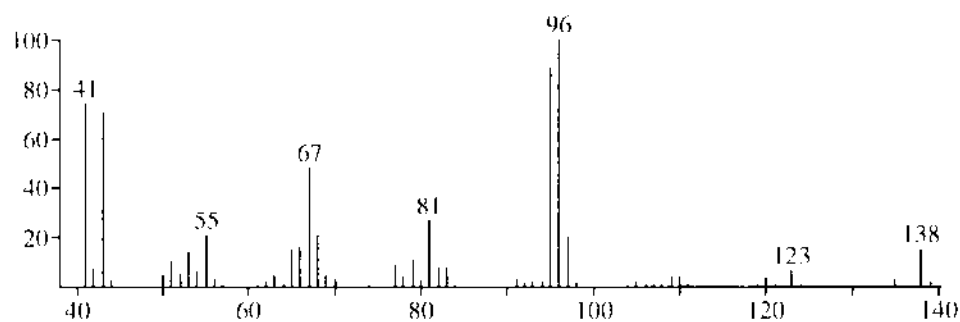
Source: ref. cpd. ex E. von Rudloff



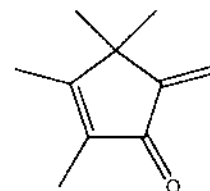
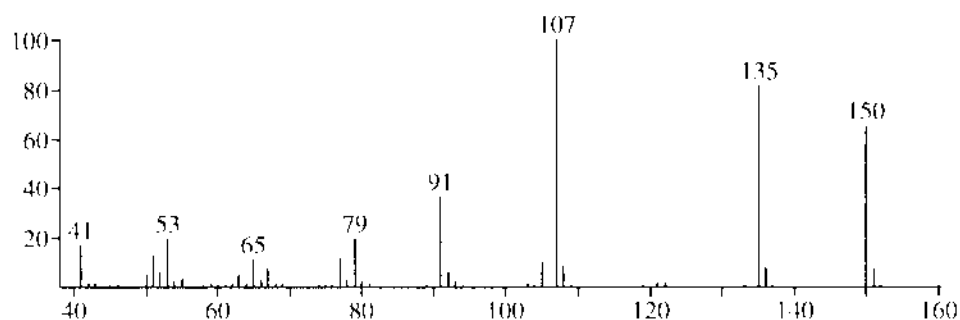
RT: 15.02 AI: 1182 KI: 1184 **Maple furanone**
 CAS#: 698-10-2 MF: C₇H₁₀O₃ FW: 142 MSD LIB#: 2040
 CN: 2(5H)-furanone, 5-ethyl-3-hydroxy-4-methyl-
 Synonyms: abhexone
 Source: Bedoukian Res.



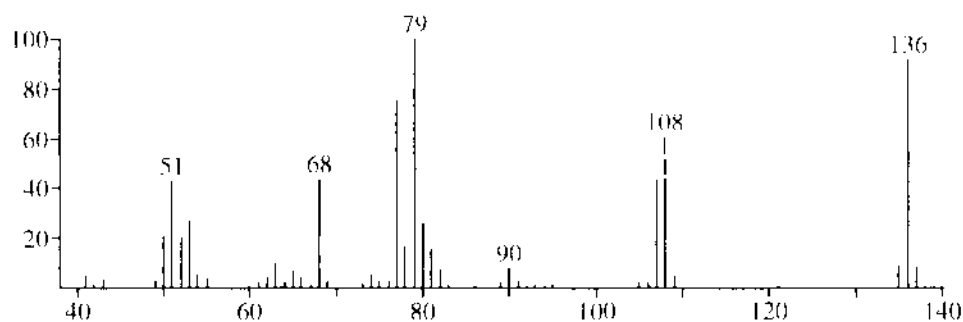
RT: 15.07 AI: 1183 KI: 1185 **Cryptone**
 CAS#: 500-02-7 MF: C₉H₁₄O FW: 138 MSD LIB#: 1418
 CN: 2-cyclohexen-1-one, 4-(1-methylethyl)-
 Synonyms: none
 Source: *Solidago graminifolia* ex P. Weyerstahl; 9.22% *Eucalyptus torelliana*,
 JEOR 9:111(1996); 8.50% *Eucalyptus dealbata*; 8.10% *Eucalyptus polyanthemus*



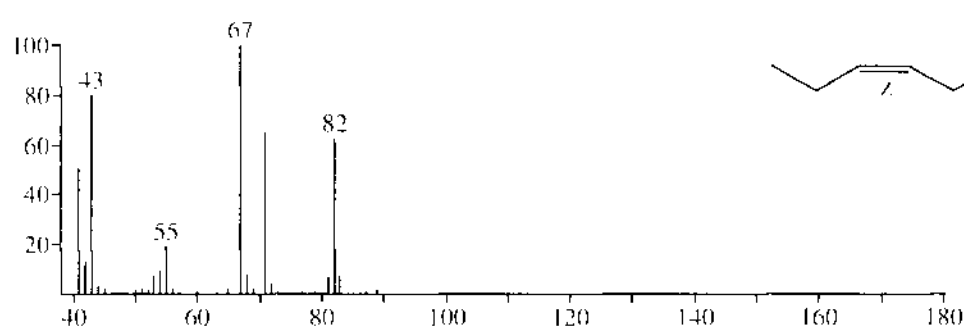
RT: 15.07 AI: 1183 KI: 1185 **Cyclopent-2-enone <5-methylene-2,3,4,4-tetramethyl->**
 CAS#: 000-00-0 MF: C₁₀H₁₄O FW: 150 MSD LIB#: 2092
 CN: cyclopent-2-enone <5-methylene-2,3,4,4 tetramethyl->
 Synonyms: none
 Source: *Lavandula luisieri* oil ex Nicolas Baldovini



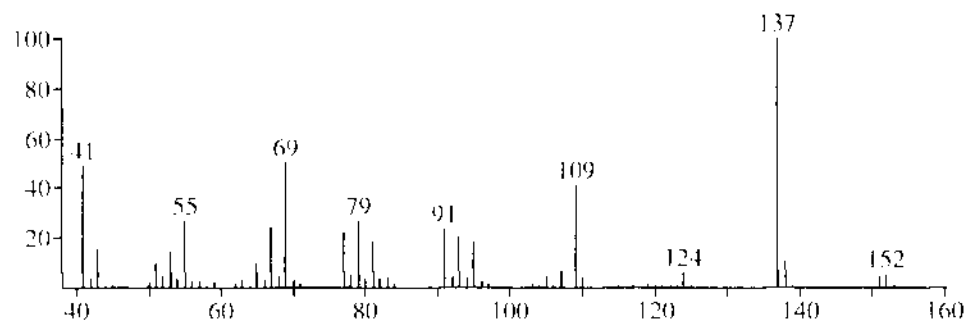
RT: 15.07 AI: 1183 KI: 1185 **Methyl-3(2-furyl)acrolein <(2E)->**
 CAS#: 108576-21-2 MF: C₈H₈O₂ FW: 136 MSD LIB#: 2022
 CN: 2-propenal, 3-(2-furanyl)-2-methyl-, (2E)-
 Synonyms: none
 Source: Bedoukian Res. ex JJ Brophy



RT: 15.09 AI: 1184 KI: 1186 **Hexenyl butanoate <(3Z)->**
 CAS#: 16491-36-4 MF: C₁₀H₁₈O₂ FW: 170 MSD LIB#: 334
 CN: butanoic acid, 3-hexenyl ester, (Z)-
 Synonyms: cis-hexenyl butyrate
 Source: ref. cpd. ex H. DePooter



RT: 15.11 AI: 1184 KI: 1186 **Dill ether**
 CAS#: 74410-10-9 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 607
 CN: benzofuran, 2,3,3a,4,5,7a-hexahydro-3,6-dimethyl-(3S-(3a,3aa,7aα))-
 Synonyms: anethofuran
 Source: Dill weed oil ex Lorann Oils; 36.70% *Anethum graveolens* (Finland).
 FEJ 3:121(1988); 25.00% *Anethum graveolens* (Europa);
 23.00% *Anethum graveolens* (U.S.A.)



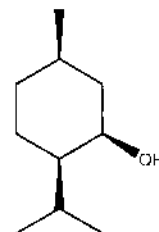
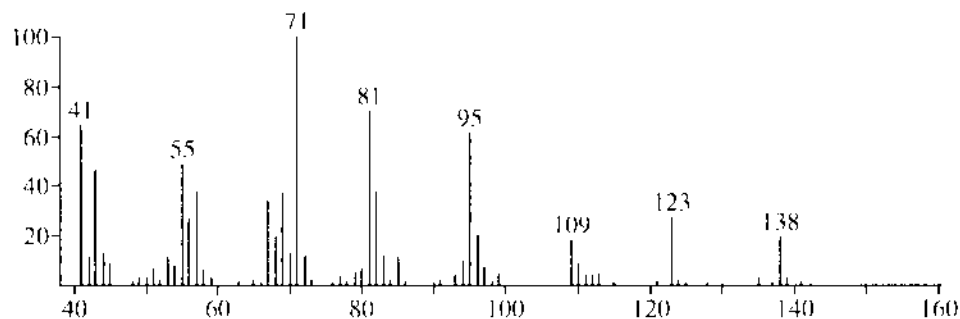
RT: 15.11 AI: 1184 KI: 1186 **Menthol <neoiso->**

CAS#: 491-02-1 MF: C₁₀H₂₀O FW: 156 MSD LIB#: 1080

CN: cyclohexanol, 5-methyl-2-(1-methylethyl)-, (1 α ,2 α ,5 α)-

Synonyms: menthol, cis-1,3,cis-1,4-

Source: Peppermint oil, McCormick Co.



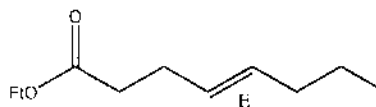
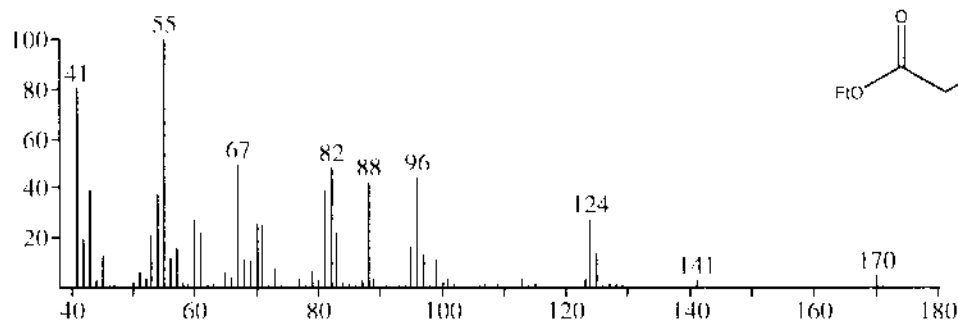
RT: 15.12 AI: 1184 KI: 1186 **Ethyl-(4E)-octenoate**

CAS#: 78989-37-4 MF: C₁₀H₁₈O₂ FW: 170 MSD LIB#: 688

CN: 4-octenoic acid, ethyl ester, (E)-

Synonyms: none

Source: Bedoukian Res. ex Art Tucker



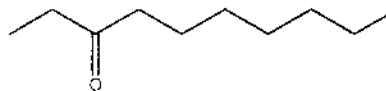
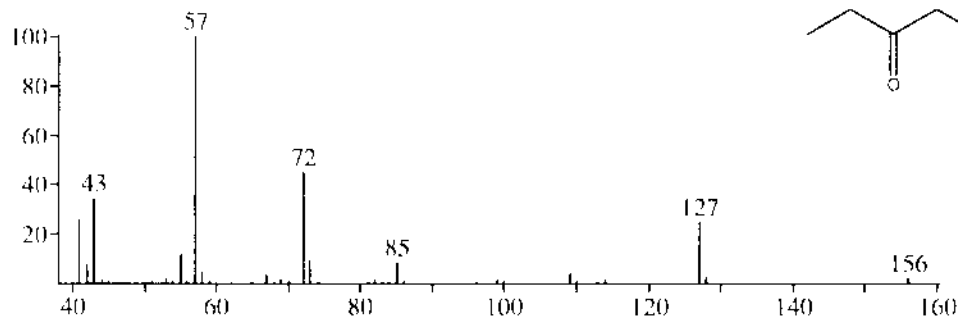
RT: 15.16 AI: 1185 KI: 1187 **Decanone <3->**

CAS#: 928 80 3 MF: C₁₀H₂₀O FW: 156 MSD LIB#: 574

CN: 3-decanone

Synonyms: ethyl heptyl ketone

Source: Pfaltz & Bauer



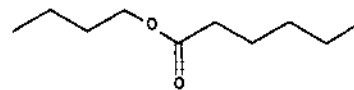
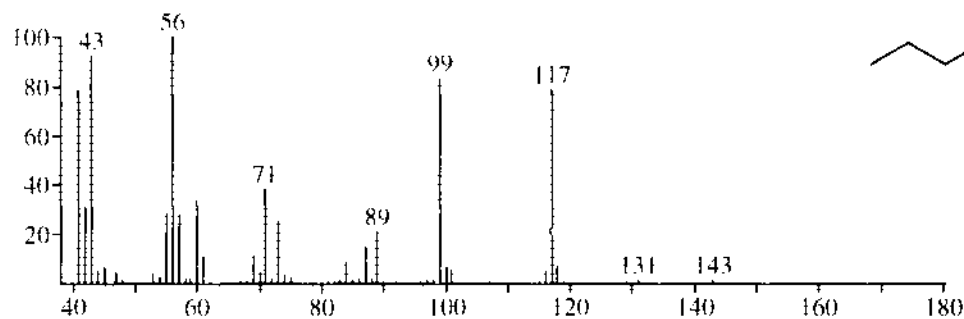
RT: 15.19 AI: 1186 KI: 1188 **Butyl n-hexanoate <n->**

CAS#: 626-82-4 MF: C₁₀H₂₀O₂ FW: 172 MSD LIB#: 186

CN: hexanoic acid, butyl ester

Synonyms: butyl caproate

Source: distilled red delicious apples



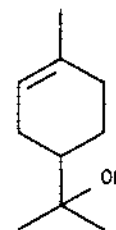
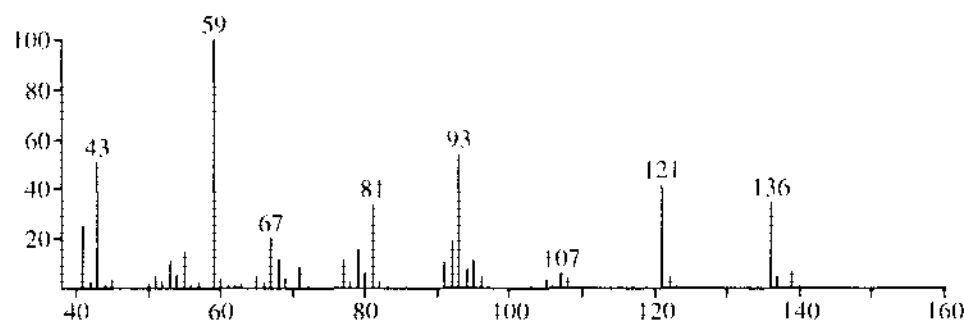
RT: 15.21 AI: 1186 KI: 1188 **Terpineol <a->**

CAS#: 98-55-5 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1517

CN: 3-cyclohexene-1-methanol, α,α,4-trimethyl-

Synonyms: p-menth-1-en-8-ol

Source: *Umbellularia californica* oil, RP Adams #5432



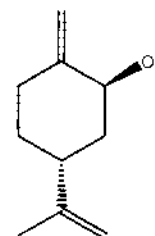
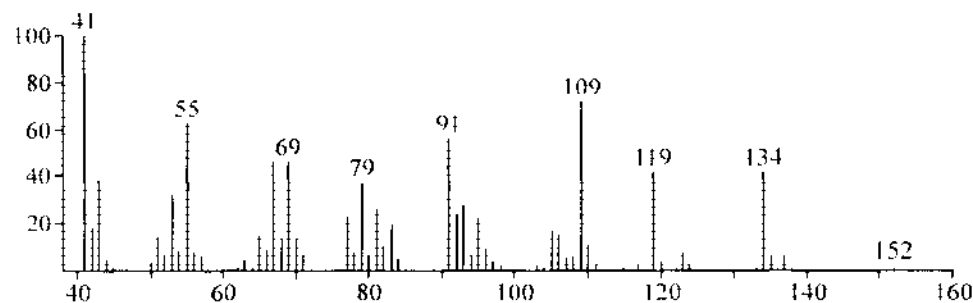
RT: 15.24 AI: 1187 KI: 1189 **Mentha-1(7),8-dien-2-ol <trans-p->**

CAS#: 21391-84-4 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1071

CN: cyclohexanol, 2-methylene-5-(1-methylethenyl)-, trans-

Synonyms: trans-isocarveol

Source: ref. cpd. ex Guy Collin



RT: 15.25 AI: 1187 KI: 1189 **Dodecene <1->**

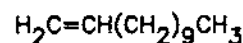
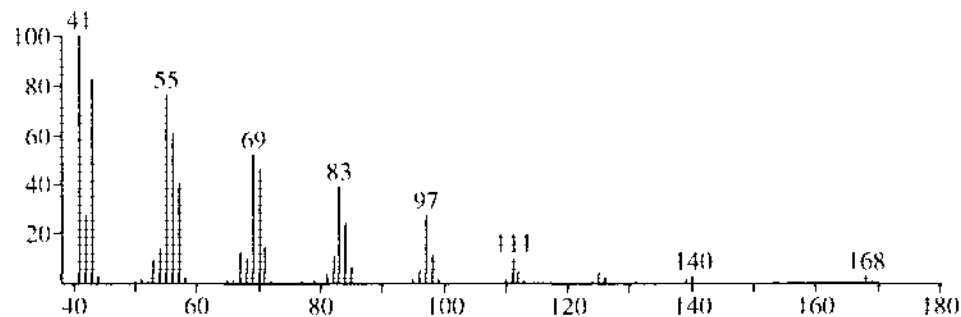
CAS#: 112-41-4 MF: C₁₂H₂₄ FW: 168 MSD LIB#: 1214

CN: dodecene (1-)

Synonyms: none

Source: Olefins mix ex Aldrich and Sigma Chem.: 0.53% *Hedychium coronarium*,

FFJ 6:217(1991); 0.40% *Vitex agnus-castus*; 0.30% *Hibiscus abelmoschus*



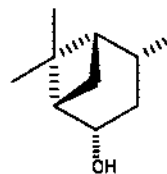
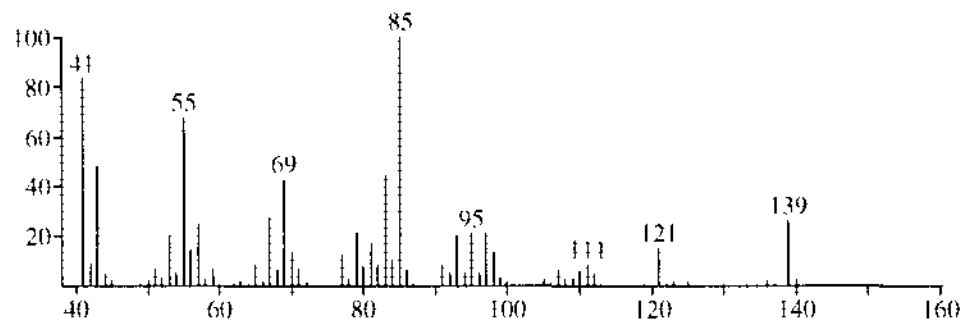
RT: 15.25 AI: 1187 KI: 1189 **Verbanol <neoiso->**

CAS#: 94480-81-6 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1546

CN: bicyclo(3.1.1)heptan-2-ol, 4,6,6-trimethyl-(1 α ,2 β ,4 β ,5 α)-

Synonyms: none

Source: ref. cpd. ex E. von Rudloff



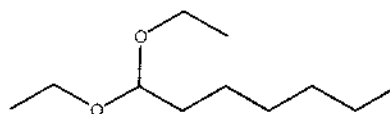
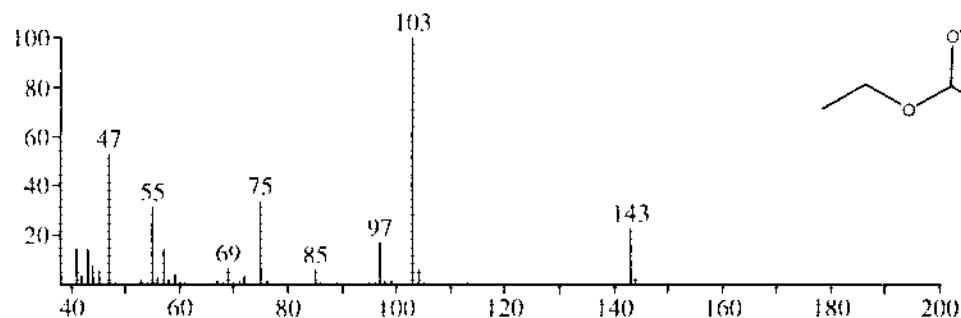
RT: 15.26 AI: 1188 KI: 1189 **Heptanal, diethyl acetal-**

CAS#: 688-82-4 MF: C₁₁H₂₄O₂ FW: 188 MSD LIB#: 2117

CN: heptane, 1,1-diethoxy-

Synonyms: none

Source: Bedoukian Res.

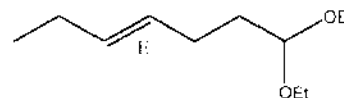
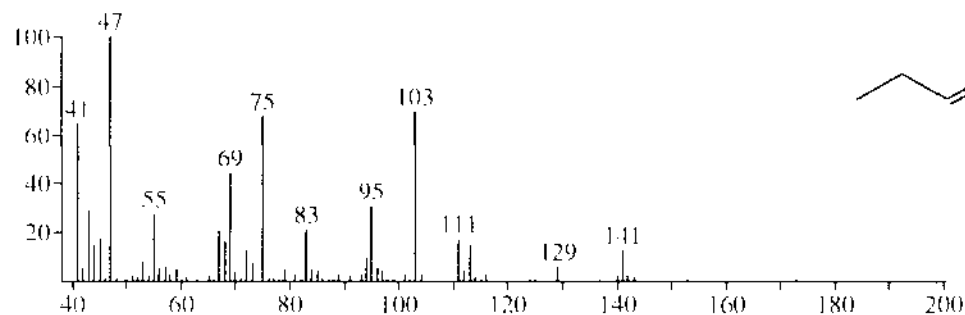


RT: 15.26 AI: 1188 KI: 1189 **Heptenal <(4E)->, diethyl acetal**CAS#: 18492-66-5 MF: C₁₁H₂₂O₂ FW: 186 MSD LIB#: 792

CN: 3-heptene, 7,7-diethoxy-, (3E)-

Synonyms: 3-heptene, 7,7-diethoxy-

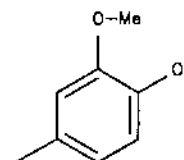
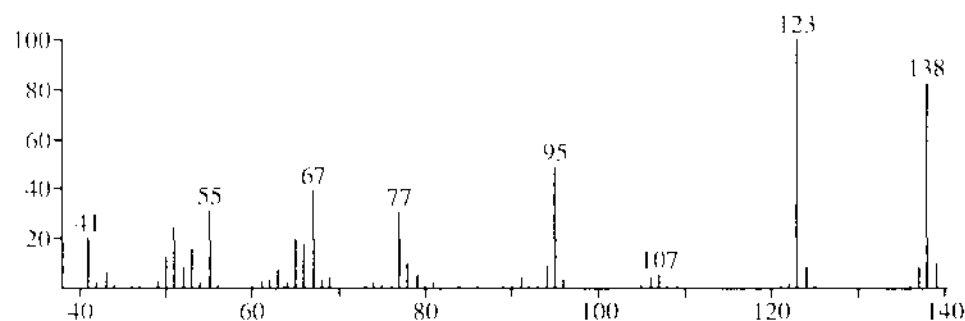
Source: Bedoukian Res. ex Art Tucker

RT: 15.27 AI: 1188 KI: 1190 **Cresol <2-methoxy-p->**CAS#: 93-51-6 MF: C₈H₁₀O₂ FW: 138 MSD LIB#: 481

CN: phenol, 2-methoxy-4-methyl-

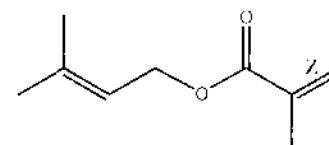
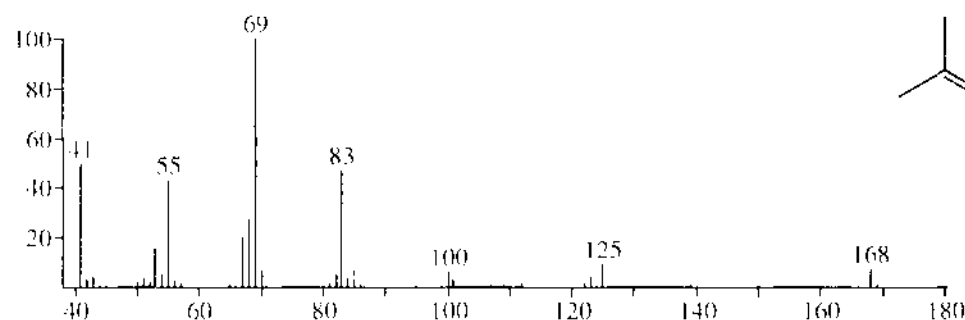
Synonyms: cresol; 4-methylguaiacol

Source: ref. cpl. ex E. von Rudloff

RT: 15.30 AI: 1189 KI: 1190 **Prenyl angelate**CAS#: 83783-82-8 MF: C₁₀H₁₆O₂ FW: 168 MSD LIB#: 1991

CN: 2-butenic acid, 2-methyl-, 3-methyl-2-butenyl ester, (2Z)-

Synonyms: 3-methyl-2-butenyl angelate

Source: Bedoukian Res. ex JJ Brophy; 0.13% *Anthemis nobilis*, 11th Intl. Cong. of Ess. Oils, New Delhi, India 4:207(1989)

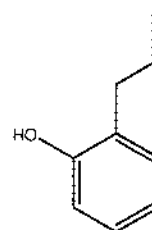
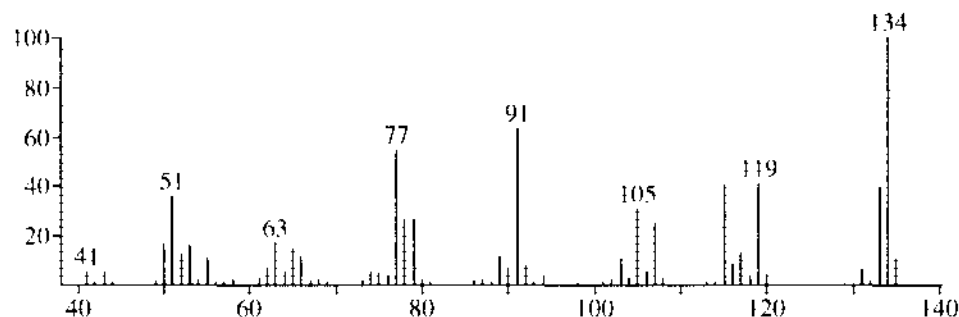
RT: 15.33 AI: 1189 KI: 1191 **Phenol <2-allyl>**

CAS#: 1745-81-9 MF: C₉H₁₀O FW: 134 MSD LIB#: 1268

CN: phenol (2-allyl)-

Synonyms: phenol, (2-(2-propenyl)-)

Source: Aldrich Chem.



RT: 15.35 AI: 1190 KI: 1191 **Methyl salicylate**

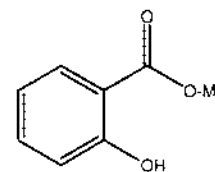
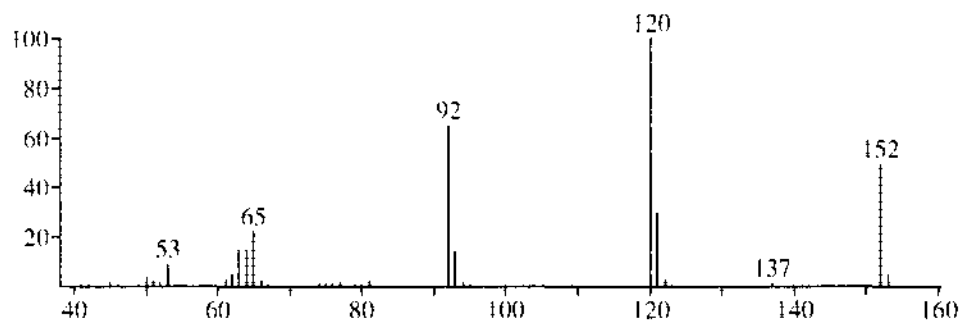
CAS#: 119-36-8 MF: C₈H₈O₃ FW: 152 MSD LIB#: 1400

CN: benzoic acid, 2-hydroxy-, methyl ester

Synonyms: salicylic acid, methyl ester; wintergreen oil; 2-carbomethoxyphenol

Source: Artificial sassafras flavor, Loran Oils; 99.40% *Betula alnoides*, JEOR 7:565(1995);

90.00% *Gaultheria procumbens*; 47.48% *Acacia farnesiana*



RT: 15.38 AI: 1190 KI: 1192 **Decanone <2->**

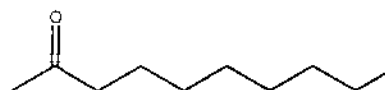
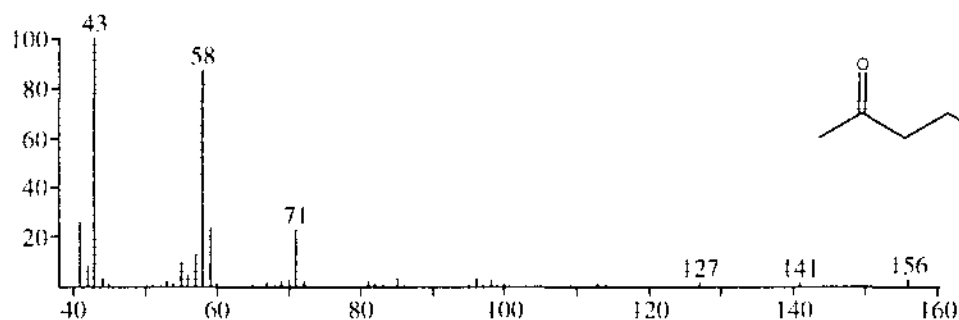
CAS#: 693-54-9 MF: C₁₀H₂₀O FW: 156 MSD LIB#: 575

CN: 2-decanone

Synonyms: methyl octyl ketone

Source: ref. cpd. ex H. von Rudloff; 2.80% *Ruta graveolens*, Sci. Pharm. 56:121(1988);

1.56% *Ruta chalepensis*; 1.54% *Rhanterium epapposum*

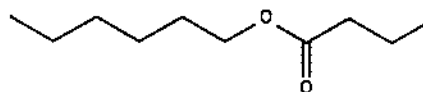
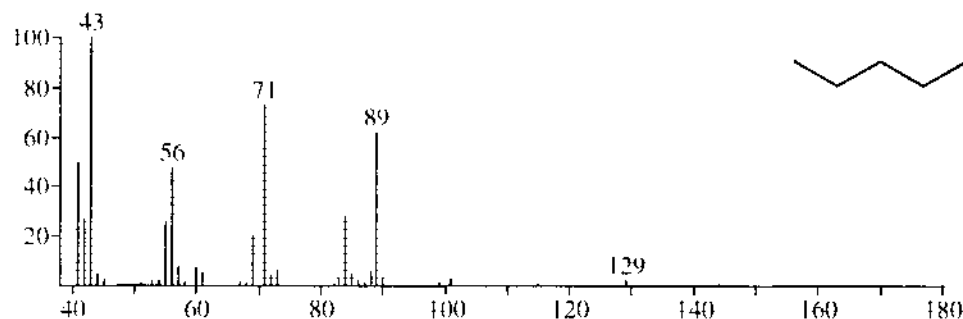


RT: 15.40 AI: 1191 KI: 1192 **Hexyl butanoate**CAS#: 2639-63-6 MF: C₁₀H₂₀O₂ FW: 172 MSD LIB#: 73

CN: butanoic acid, hexyl ester

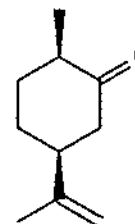
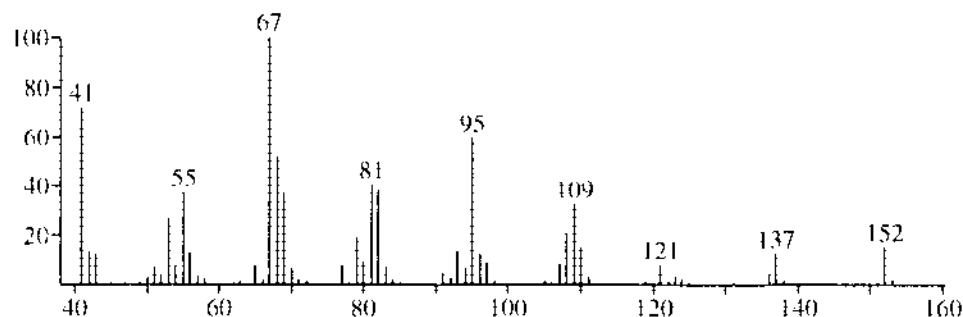
Synonyms: hexyl butyrate

Source: Aldrich Chem.

RT: 15.41 AI: 1191 KI: 1192 **Dihydro carvone <cis->**CAS#: 7764-50-3 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 609

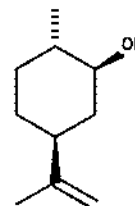
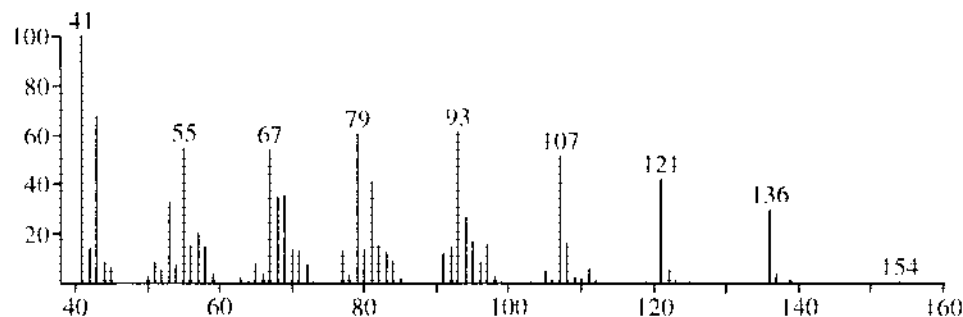
CN: cyclohexanone, 2-methyl-5-(1-methylethenyl)-

Synonyms: p-menth-8-en-2-one; 5-isopropenyl-2-methylcyclohexanone

Source: Dill seed oil, Schilling; 26.16% *Sphaeranthus cyathuloides*, JEOR 7:177(1995);11.38% *Hyptis mutabilis*; 5.20% *Anethum sowa*RT: 15.45 AI: 1192 KI: 1193 **Dihydro carveol**CAS#: 38049-26-2 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 602

CN: cyclohexanol, 2-methyl-5-(1-methylethenyl)-, (1α,2β,5α)-

Synonyms: revised name, old name = neoiso-dihydrocarveol

Source: ref. cpd., S. Geribaldi, France; 7.71% *Mentha suaveolens*, in: De vluchtige olie van enkele chemotypen van *Mentha suaveolens* Ehrh. En van hybriden met Men, H. Hendricks,Ph.D. thesis, U. Rijksuniversiteit, Groningen(1974); 5.94% *Mentha spicata*; 3.51% *Mentha longifolia*

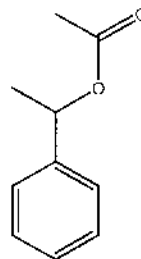
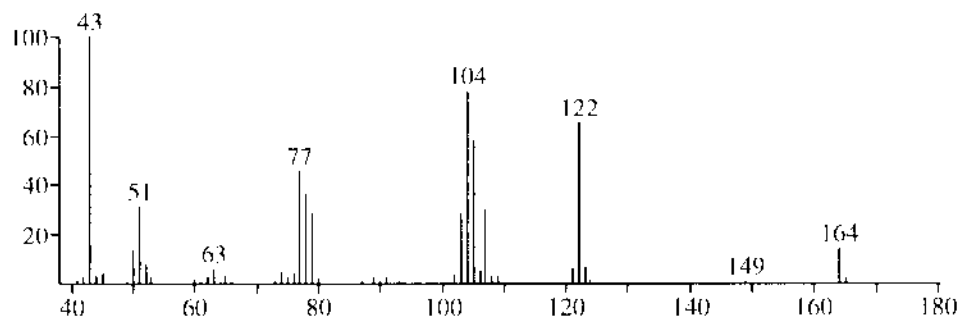
RT: 15.45 AI: 1192 KI: 1193 **Phenyl ethyl acetate <1->**

CAS#: 93-92-5 MF: C₁₀H₁₂O₂ FW: 164 MSD LIB#: 1275

CN: benzenemethanol, α -methyl-, acetate

Synonyms: phenylethyl acetate, α -; gardenol; styrallyl acetate

Source: Pfaltz & Bauer ex A. Tucker; 1.22% *Gardenia jasminoides*, JEOR 8:241(1996)



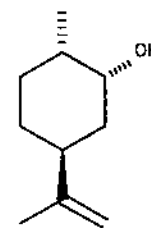
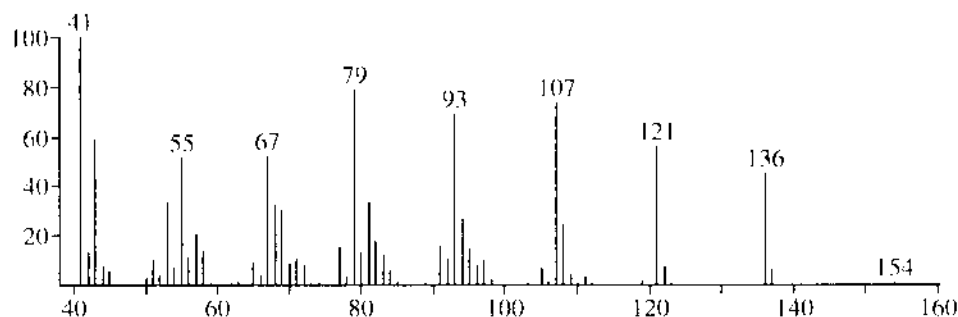
RT: 15.47 AI: 1193 KI: 1194 **Dihydro carveol <neo->**

CAS#: 18675-33-7 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 600

CN: cyclohexanol, 2-methyl-5-(1-methylethenyl)-, (1 α ,2 α ,5 β)-

Synonyms: revised name, old classical name = iso-dihydrocarveol

Source: ref. epd., S. Geribaldi, France



RT: 15.48 AI: 1193 KI: 1194 **Decenal <(4Z)->**

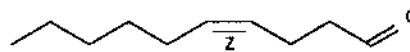
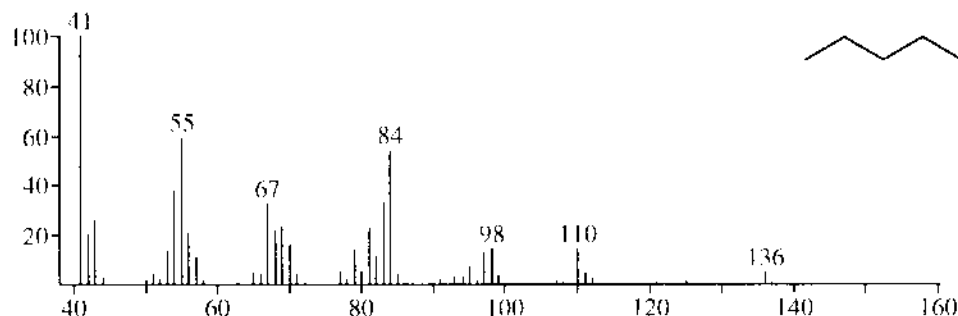
CAS#: 21662-09-9 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 581

CN: 4-decenal, (Z)-

Synonyms: cis-4-decenal

Source: Bedoukian Res. ex Art Tucker; 2.10% *Alpinia katsumadai*, JEOR 2:259(1990);

1.70% *Carum carvi*; 0.30% *Coriandrum sativum*



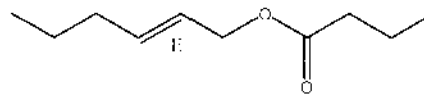
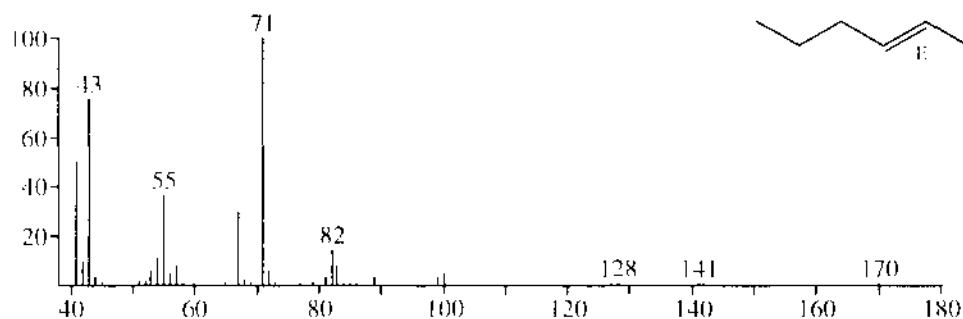
RT: 15.48 AI: 1193 KI: 1194 **Hexenyl butanoate <(2E)->**

CAS#: 53398-83-7 MF: C₁₀H₁₈O₂ FW: 170 MSD LIB#: 333

CN: butanoic acid, 2-hexenyl ester

Synonyms: trans-2-hexenyl butyrate

Source: ref. cpd. ex H. DePooter



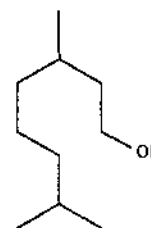
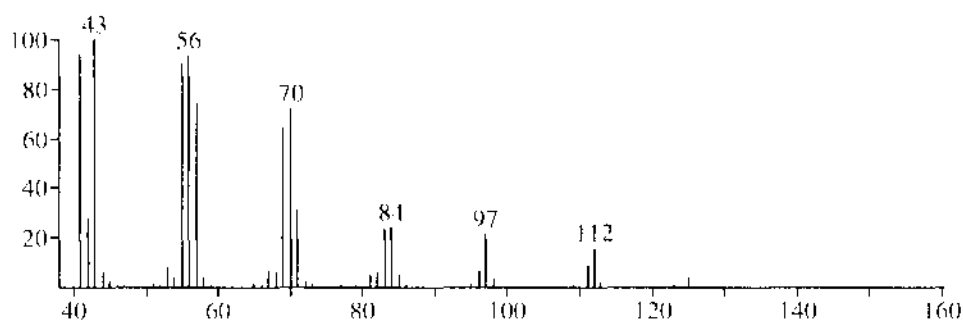
RT: 15.55 AI: 1194 KI: 1195 **Dihydro citronellol**

CAS#: 106-21-8 MF: C₁₀H₂₂O FW: 158 MSD LIB#: 604

CN: 1-octanol, 3,7-dimethyl-

Synonyms: tetrahydro geraniol; perhydrogeraniol

Source: SCM Chems. ex H. Hills



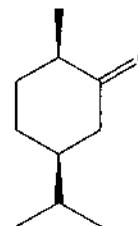
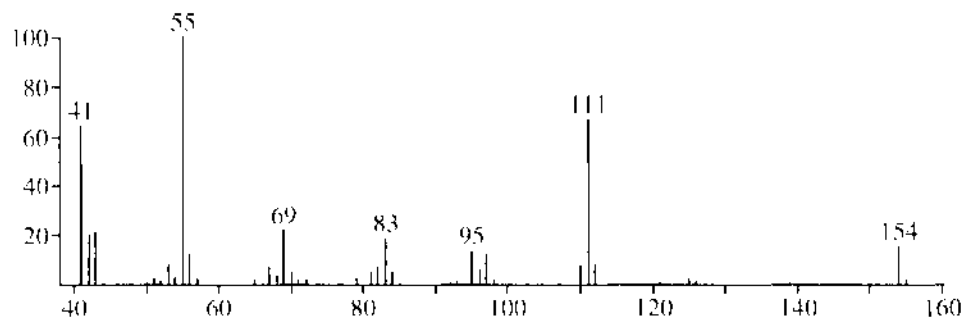
RT: 15.55 AI: 1194 KI: 1195 **Menthan-2-one <cis-p->**

CAS#: 3901-91-5 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1073

CN: cyclohexanone, 2-methyl-5-(1-methylethyl)-, cis-

Synonyms: carvomenthane; isocarvomenthane

Source: Bedoukian Res. ex Art Tucker



RT: 15.55 AI: 1194 KI: 1195 **Myrtenol**

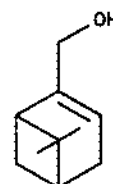
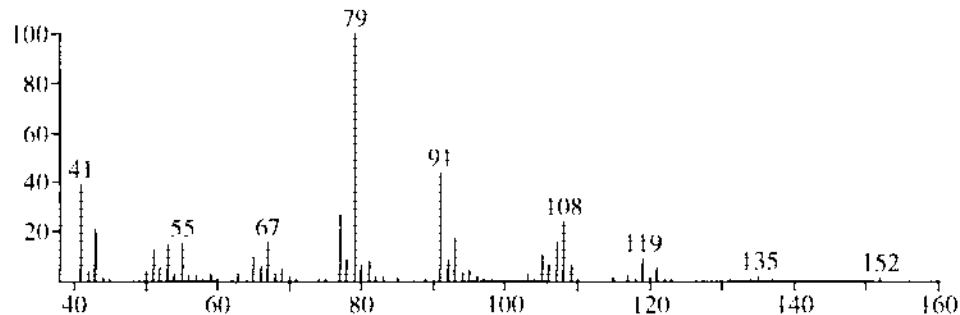
CAS#: 515-00-4 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1124

CN: bicyclo(3.1.1)hept-2-ene-2-methanol, 6,6-dimethyl-

Synonyms: 2-pinen-10-ol

Source: ref. epd. ex E. von Rudloff; 27.10% *Lippia multiflora* (leaf),

JECOR 7:331(1995); *Myrtus communis* (mature fruit); 3.80% *Artemisia alba*



RT: 15.56 AI: 1195 KI: 1195 **Myrtenal**

CAS#: 564-94-3 MF: C₁₀H₁₄O FW: 150 MSD LIB#: 1125

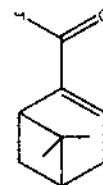
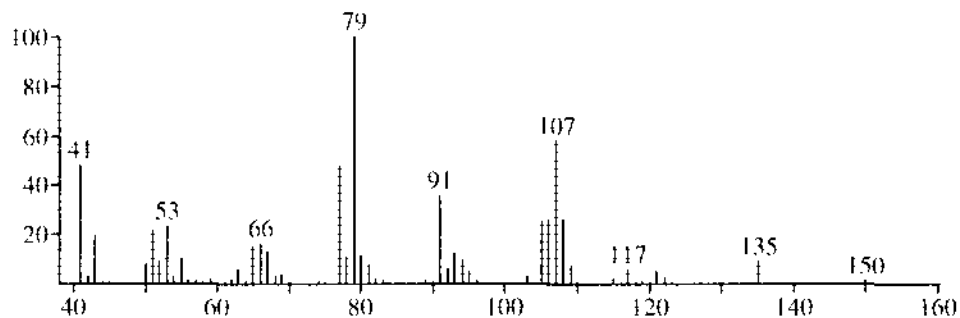
CN: bicyclo(3.1.1)hept-2-ene-2-carboxaldehyde, 6,6-dimethyl-

Synonyms: none

Source: ref. epd. ex E. von Rudloff; 27.02% *Ledum palustre*, p. 80,

in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong(1993);

5.00% *Anthemis nobilis*; 3.80% *Artemisia alba*



RT: 15.57 AI: 1195 KI: 1196 **Anisaldehyde <meta->**

CAS#: 591-31-1 MF: C₈H₈O₂ FW: 136 MSD LIB#: 167

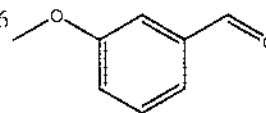
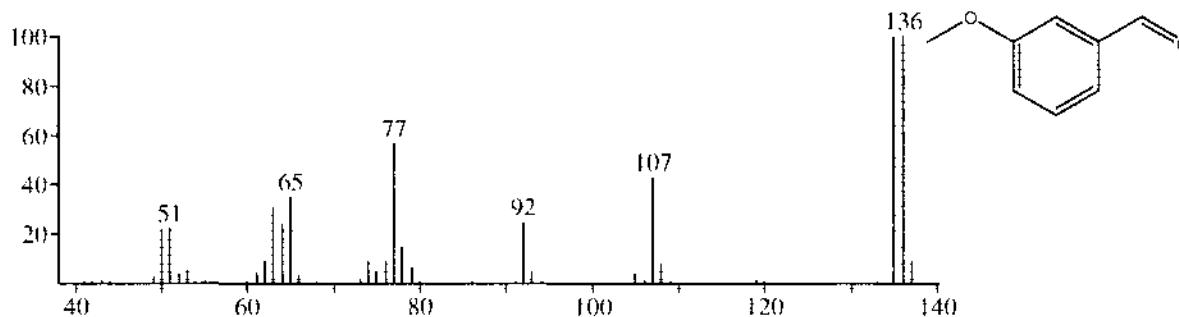
CN: benzaldehyde, 3-methoxy-

Synonyms: 3-anisaldehyde

Source: Aldrich Chem.; 0.74% *Kaempferia galanga* (rhizome), p.103,

in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong(1993);

0.58% *Artemisia waltonii*

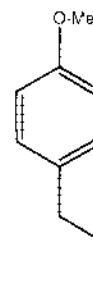
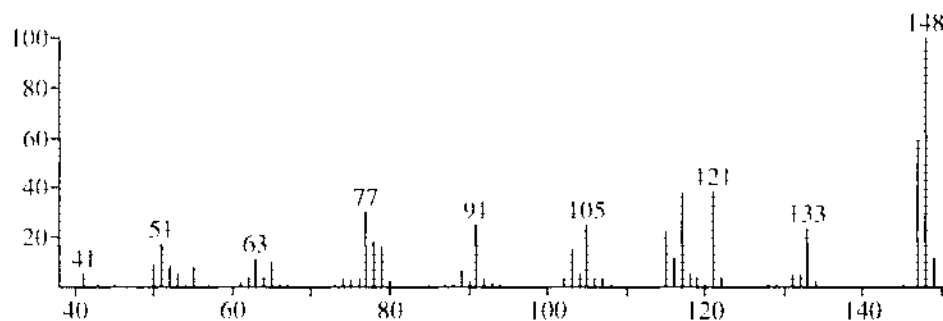


RT: 15.57 AI: 1195 KI: 1196 **Methyl chavicol**CAS#: 140-67-0 MF: C₁₀H₁₂O FW: 148 MSD LIB#: 169

CN: methoxy-4-(2-propenyl)benzene

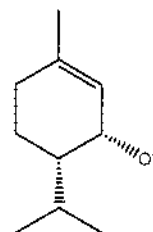
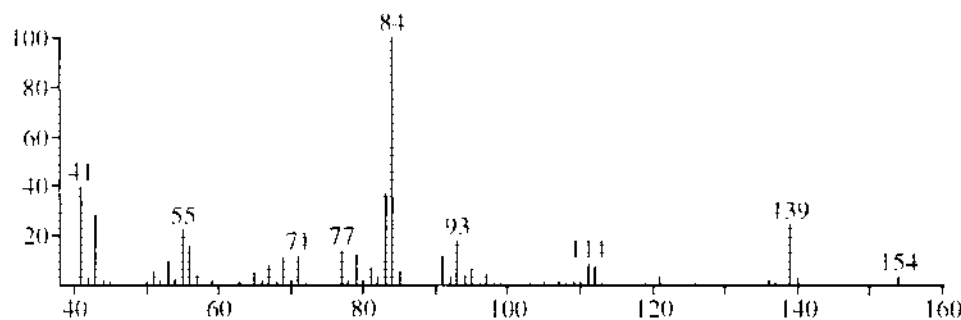
Synonyms: estragole; esdragol; chavicol methyl ether

Source: distillation of basil leaves ex McCormick Co., RP Adams #5427;

96.78% *Agastache foeniculum*, JEOR 4:295(1992); 93.20% *Amomum linguiforme*;93.10% *Clausena dunniana*RT: 15.59 AI: 1195 KI: 1196 **Piperitol <cis->**CAS#: 34350-53-3 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1327

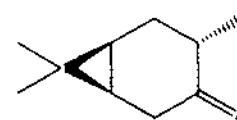
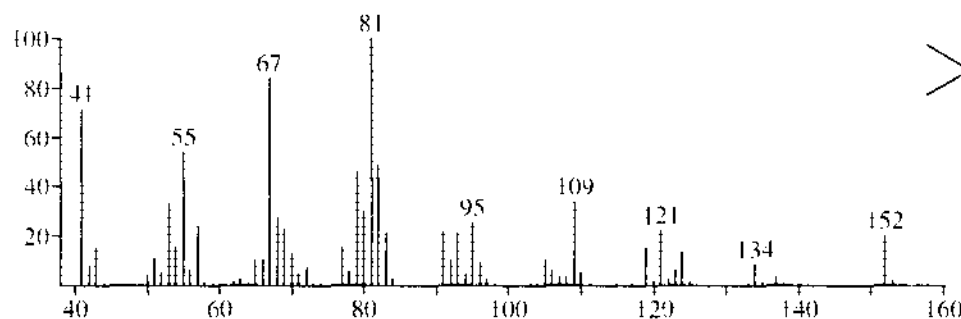
CN: 2-cyclohexen-1-ol, 3-methyl-6-(1-methylethyl)-, (1R,4S)-

Synonyms: p-menth-1-en-3-ol, (3R,4S)-

Source: ref. cpd. ex E. von Rudloff; #2509; 26.42% *Citrus sinensis*, JEOR 7:105(1995);15.20% *Cymbopogon jvarancusa*; 0.80% *Myristica fragrans*RT: 15.60 AI: 1196 KI: 1196 **Caranone <trans-4->**CAS#: 4176-04-9 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1755

CN: bicyclo(4.1.0)heptan-3-one, 4,7,7-trimethyl-, (1R,4S,6S)-

Synonyms: none

Source: *Limnophila chinensis* ex Art Tucker

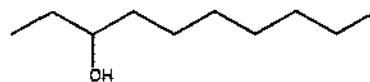
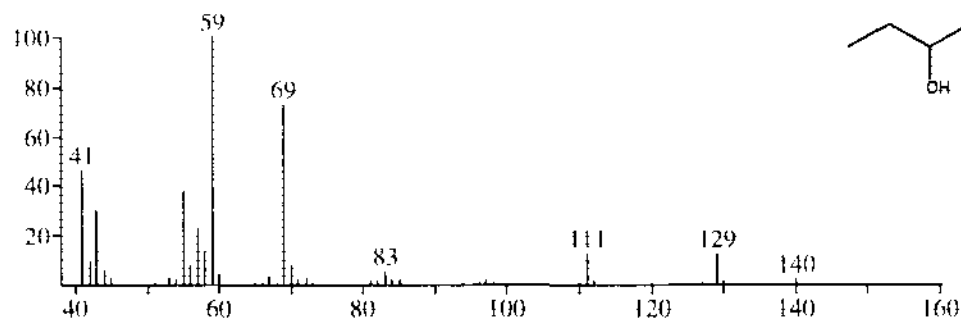
RT: 15.60 AI: 1196 K1: 1196 **Decanol <3>**

CAS#: 1565-81-7 MF: C₁₀H₂₂O FW: 158 MSD LIB#: 573

CN: 3-decanol

Synonyms: 3-hydroxydecane

Source: Pfaltz & Bauer



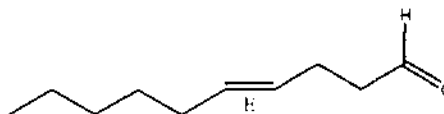
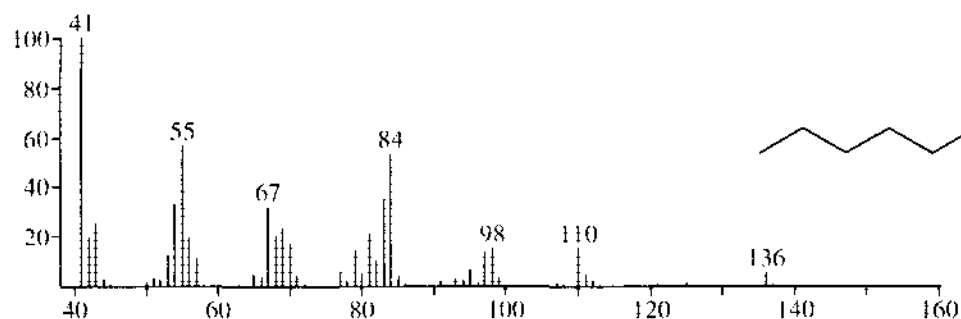
RT: 15.60 AI: 1196 K1: 1196 **Decenal <(4E)>**

CAS#: 65405-70-1 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 582

CN: 4-decenal, (E)-

Synonyms: trans-4-decenal

Source: Bedoukian Res. ex Art Tucker



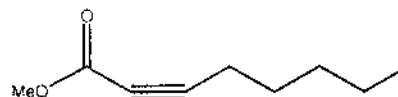
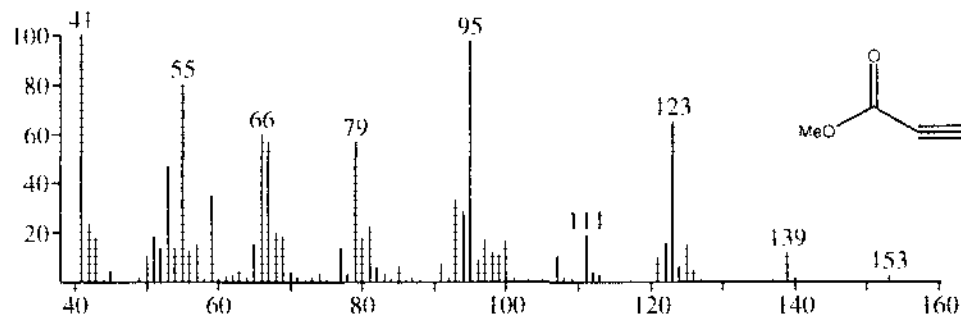
RT: 15.60 AI: 1196 K1: 1196 **Methyl heptfene carbonate**

CAS#: 111-12-6 MF: C₉H₁₄O₂ FW: 154 MSD LIB#: 2151

CN: 2-octynoic acid, methyl ester

Synonyms: folione; Vert de vilette, artificial;

Source: Bedoukian Res.

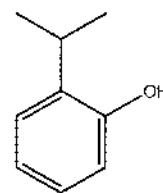
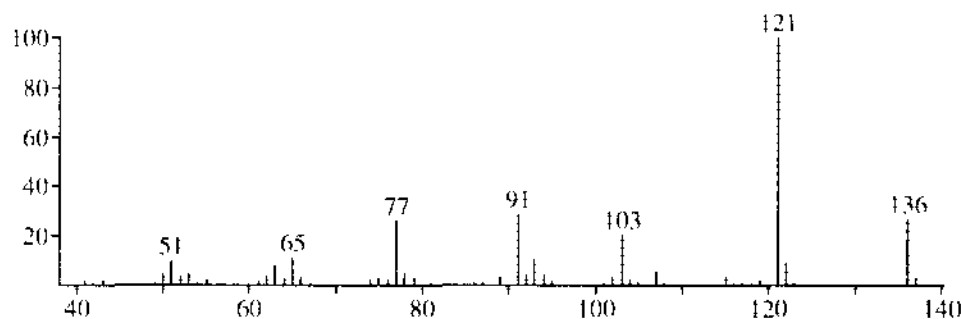


RT: 15.61 AI: 1196 KE: 1196 **Cumenol <o->**CAS#: 88-69-7 MF: C₉H₁₂O FW: 136 MSD LIB#: 1625

CN: phenol, 2-(1-methylethyl)-

Synonyms: phenol<o-isopropyl->

Source: Aldrich Chem.

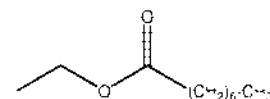
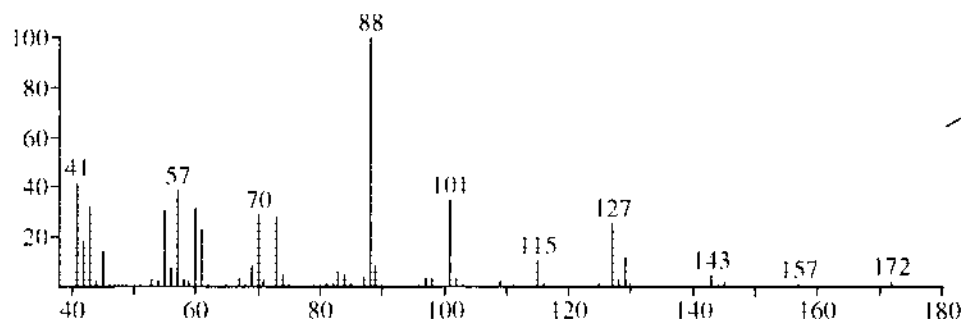
RT: 15.63 AI: 1196 KE: 1197 **Ethyl octanoate**CAS#: 106-32-1 MF: C₁₀H₂₀O₂ FW: 172 MSD LIB#: 76

CN: octanoic acid, ethyl ester

Synonyms: ethyl caprylate

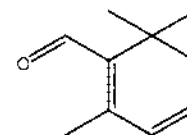
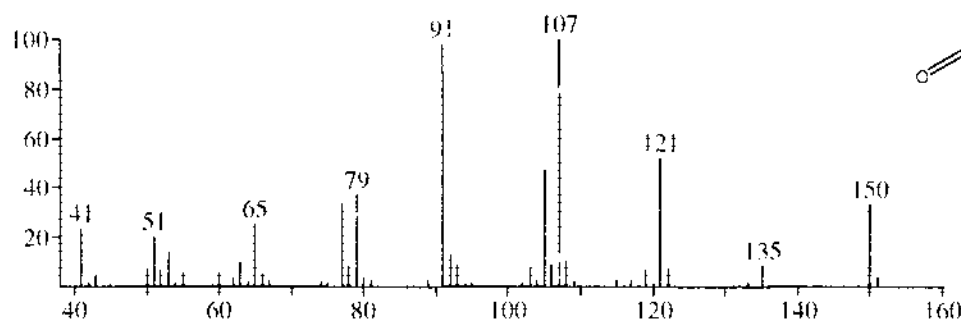
Source: Aldrich Chem.; 6.66% *Buddleia asiatica*, in: Aromatic Plants & Essential

Constituents. New Sources of Essential Oils in China, Peace Book Co., Hong Kong (1993);

5.62% *Chaenomeles speciosa*; 2.24% *Mandragora officinarum* (fruit)RT: 15.64 AI: 1197 KE: 1196 **Safranal**CAS#: 116-26-7 MF: C₁₀H₁₄O FW: 150 MSD LIB#: 1369

CN: 1,3-cyclohexadiene-1-carboxaldehyde, 2,6,6-trimethyl-

Synonyms: safidon; safranin

Source: ref. epd. ex P. Weyerstahl; 60.30% *Crocus sativus*, Journ. of HighResol. Chromot. 14:771(1991); 0.10% *Narcissus tazetta* (absolute); 0.05% *Tilia cordata*

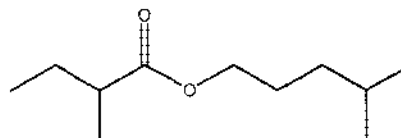
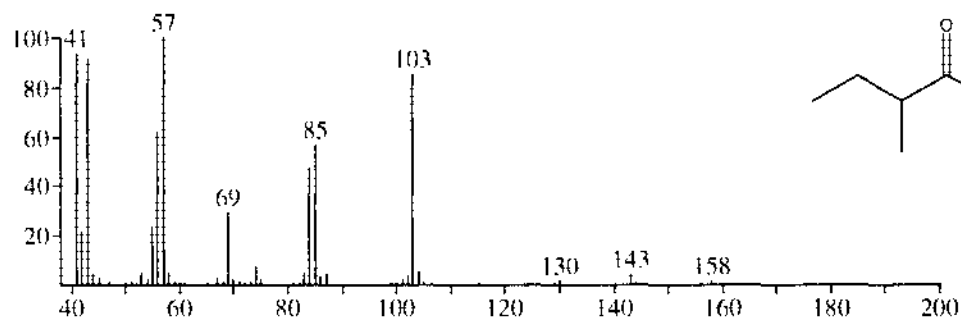
RT: 15.66 AE: 1197 KI: 1197 **Butanoic acid, 2-methyl-4-methylpentyl ester**

CAS#: 35852-40-5 MF: C₁₁H₂₂O₂ FW: 186 MSD LIB#: 1910

CN: butanoic acid, 2-methyl-, 4-methylpentyl ester

Synonyms: Isohexyl 2-methylbutyrate

Source: *Lomatium dissectum* root oil ex Vasu Dev



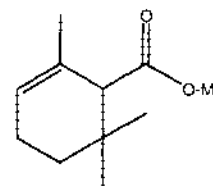
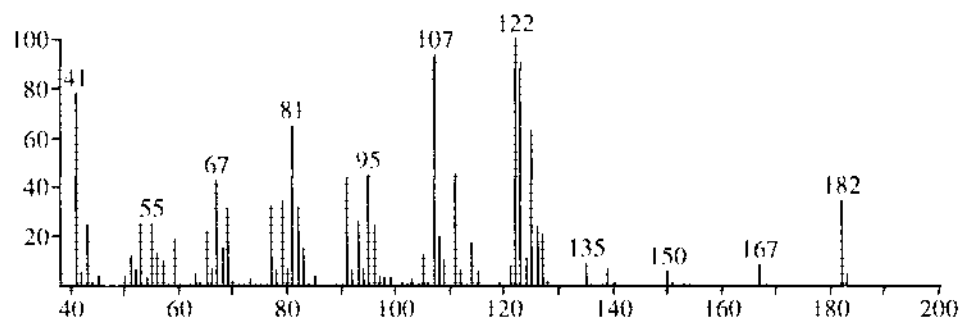
RT: 15.66 AE: 1197 KI: 1197 **Methyl α -cyclogeranate**

CAS#: 28043-10-9 MF: C₁₁H₁₈O₂ FW: 182 MSD LIB#: 1087

CN: 2-cyclohexene-1-carboxylic acid, 2,6,6-trimethyl-, methyl ester

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl



RT: 15.66 AE: 1197 KI: 1197 **Verbanol**

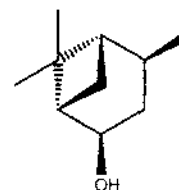
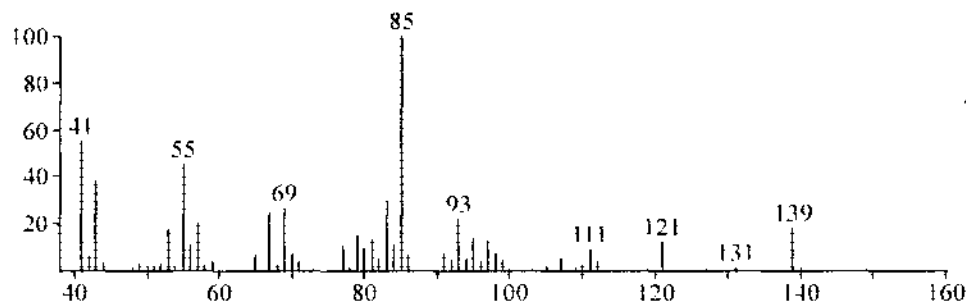
CAS#: 94480-83-8 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1547

CN: bicyclo(3.1.1)heptan-2-ol, 4,6,6-trimethyl-(1 α ,2 α ,4 α ,5 α)-

Synonyms: none

Source: ref. cpd. ex E. von Rudloff; 1.12% *Daucus carota*, Ind. Alim. Ag. 108:357(1991);

0.90% *Cinnamomum appelianum*; 0.50% *Pistacia lentiscus*



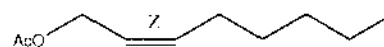
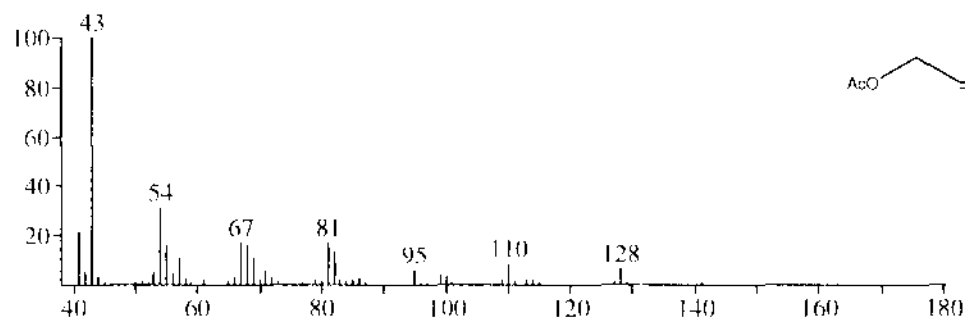
RT: 15.67 AI: 1197 KI: 1198 **Octenol acetate <(2Z)->**

CAS#: 26806-12-2 MF: C₁₀H₁₈O₂ FW: 170 MSD LIB#: 2079

CN: 2-octen-1-ol, acetate(2Z-)

Synonyms: none

Source: Bedoukian Res.



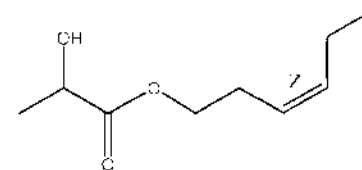
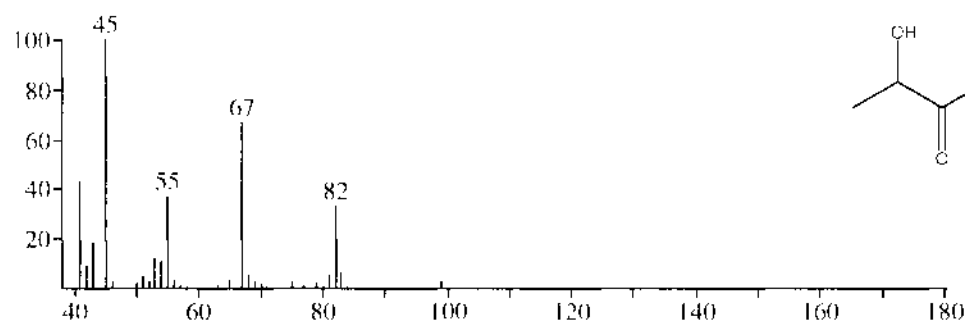
RT: 15.68 AI: 1197 KI: 1198 **Hexenyl lactate <(3Z)->**

CAS#: 61931-81-5 MF: C₉H₁₆O₃ FW: 172 MSD LIB#: 1587

CN: propanoic acid, 2-hydroxy-, (3Z)-3-hexenyl ester

Synonyms: none

Source: Aldrich Chem.



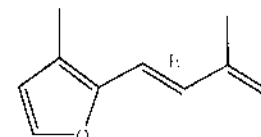
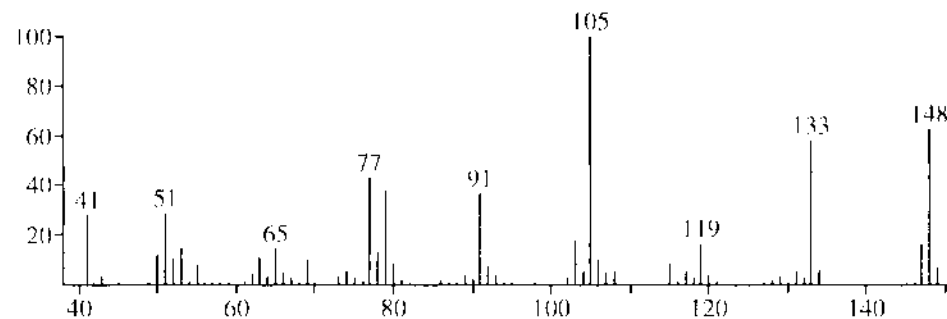
RT: 15.69 AI: 1198 KI: 1198 **Shisofuran**

CAS#: 235742-95-7 MF: C₁₀H₁₂O FW: 148 MSD LIB#: 1413

CN: shisofuran

Synonyms: none

Source: Aldrich Chem.



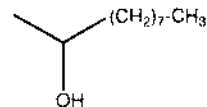
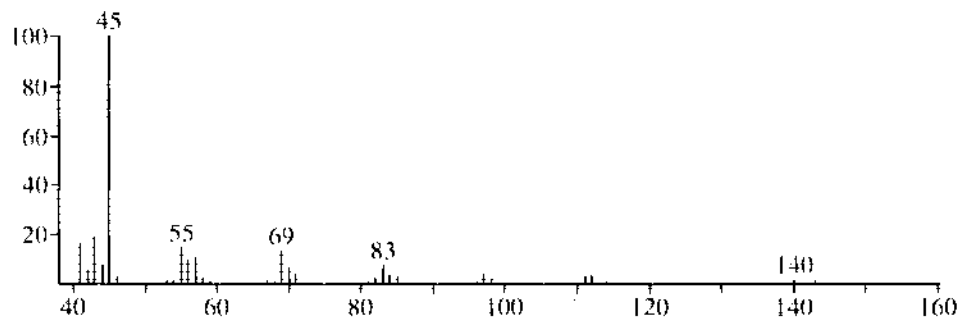
RT: 15.72 AI: 1198 KI: 1199 **Decanol <2->**

CAS#: 1120-06-5 MF: C₁₀H₂₂O FW: 158 MSD LIB#: 1817

CN: 2-decanol

Synonyms: sec-decyl alcohol

Source: alcohols mix (2-OHs) ex K-H Kubeczka



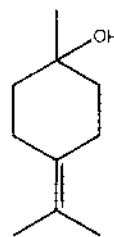
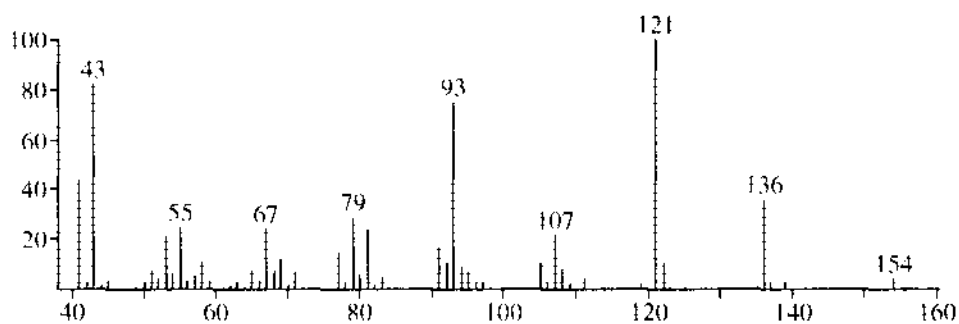
RT: 15.73 AI: 1199 KI: 1199 **Terpineol <γ->**

CAS#: 586-81-2 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1527

CN: cyclohexanol, 1-methyl-4-(1-methylethylidene)-

Synonyms: none

Source: Unipine 90 ex Allen Ganser & Assoc.



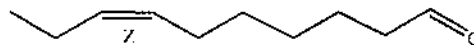
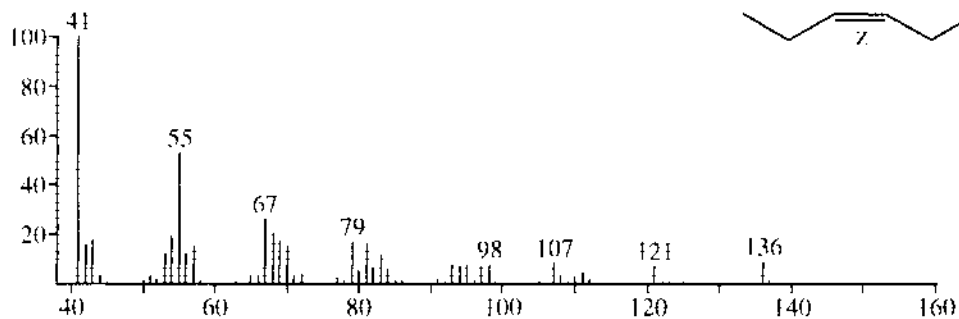
RT: 15.74 AI: 1199 KI: 1199 **Decenal <(7Z)->**

CAS#: 21661-97-2 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 2132

CN: 7-decenal, (7Z)-

Synonyms: none

Source: Bedoukian Res.



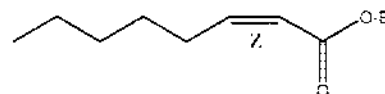
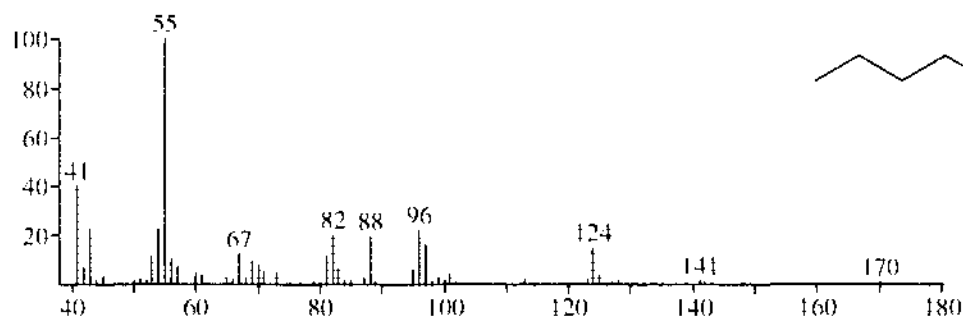
RT: 15.75 AI: 1199 KI: 1199 **Ethyl oct-(2Z)-enoate**

CAS#: 42778-93-8 MF: C₁₀H₁₈O₂ FW: 170 MSD LIB#: 684

CN: 2-octenoic acid, ethyl ester, (Z)-

Synonyms: none

Source: Bedoukian Res. ex Art Tucker



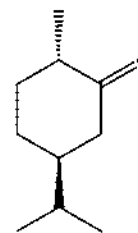
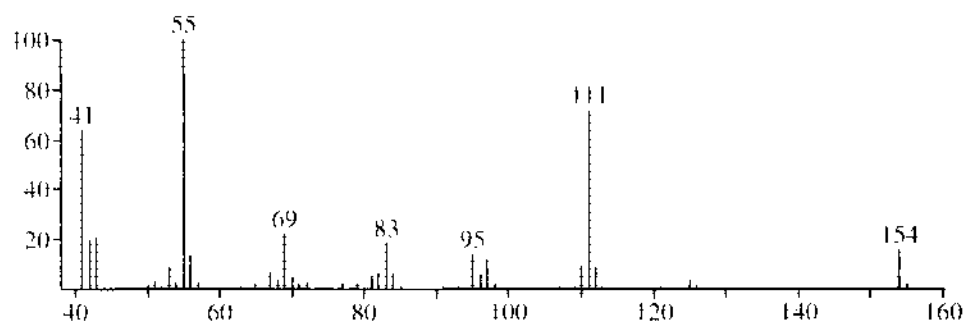
RT: 15.75 AI: 1199 KI: 1199 **Menthan-2-one <trans-p>**

CAS#: 499-70-7 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1074

CN: cyclohexanone, 2-methyl-5-(1-methylethyl)-, trans-

Synonyms: carvomenthone; tetrahydrocarvone

Source: Bedoukian Res. ex Art Tucker



RT: 15.77 AI: 1200 KI: 1200 **Dodecane <n>**

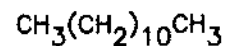
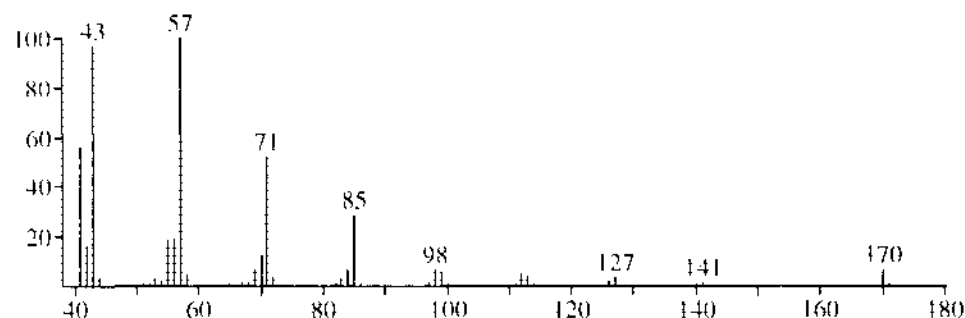
CAS#: 112-40-3 MF: C₁₂H₂₆ FW: 170 MSD LIB#: 92

CN: dodecane

Synonyms: none

Source: Alkanes mix, Alltech Assoc.; 3.50% *Acacia praecox* (flower), FEJ 11:3(1996);

1.09% *Valeriana officinalis*; 1.00% *Vitex angus-castus* (leaf)



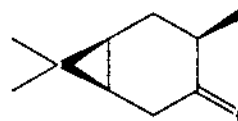
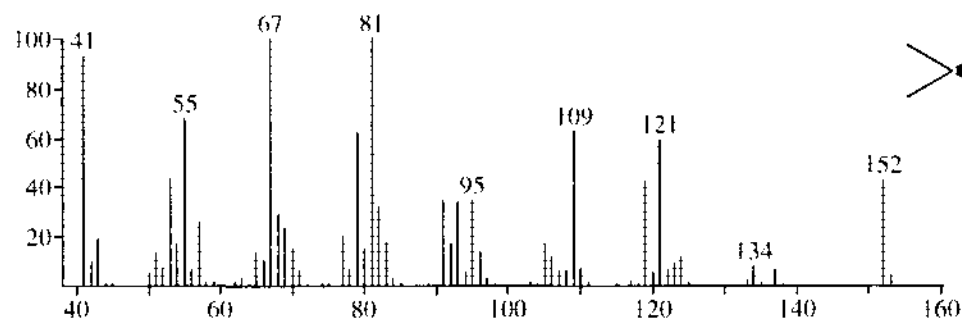
RT: 15.80 AI: 1200 KI: 1200 **Caranone <cis-4->**

CAS#: 4176-01-6 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1754

CN: bicyclo(4.1.0)heptan-3-one, 4,7,7-trimethyl-, (1R,4R,6S)-

Synonyms: none

Source: *Linnophila chinensis* ex Art Tucker



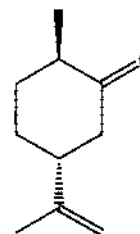
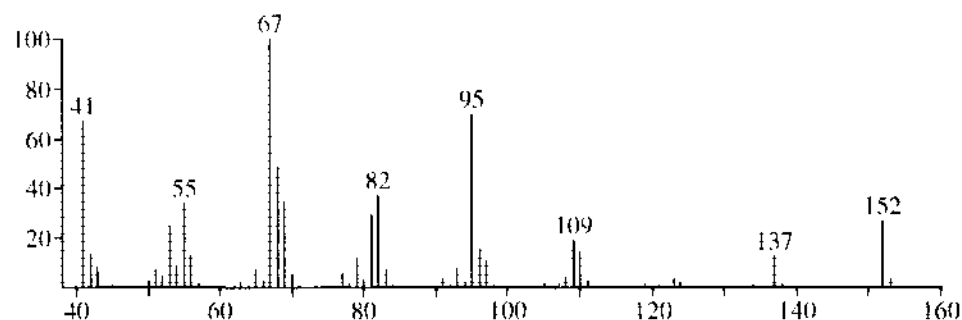
RT: 15.80 AI: 1200 KI: 1200 **Dihydro carvone <trans->**

CAS#: 5948-04-9 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 610

CN: cyclohexanone, 2-methyl-5-(1-methylethenyl)-, trans-

Synonyms: p-menth-8-en-2-one, trans-

Source: Dill seed oil, Schilling Co.; 67.43% *Sphaeranthus cyathuloides*, JEOR 7:177(1995); 32.91% *Hyptis mutabilis*; 24.60% *Tanacetum vulgare* (flower)



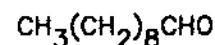
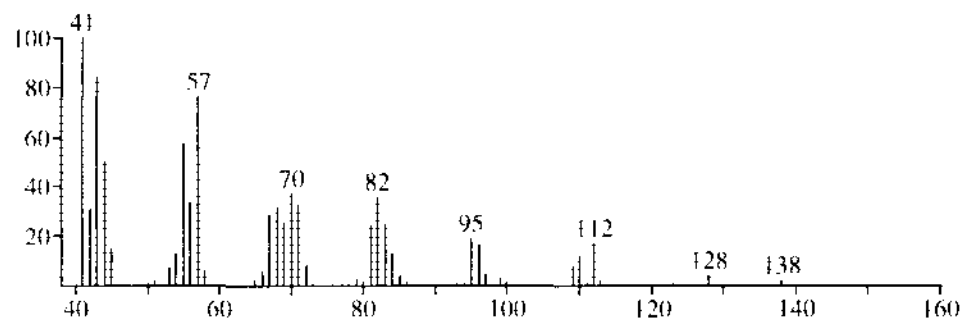
RT: 15.83 AI: 1201 KI: 1201 **Decanal <n->**

CAS#: 112-31-2 MF: C₁₀H₂₀O FW: 156 MSD LIB#: 40

CN: decanal

Synonyms: caprinic aldehyde

Source: Aldehyde mix, Aldrich Chem.; 26.60% *Polygonum minus*, JEOR 2:167(1990); 17.00% *Citrus sinensis*; 13.70% *Coriandrum sativum*



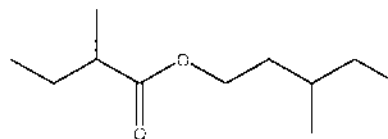
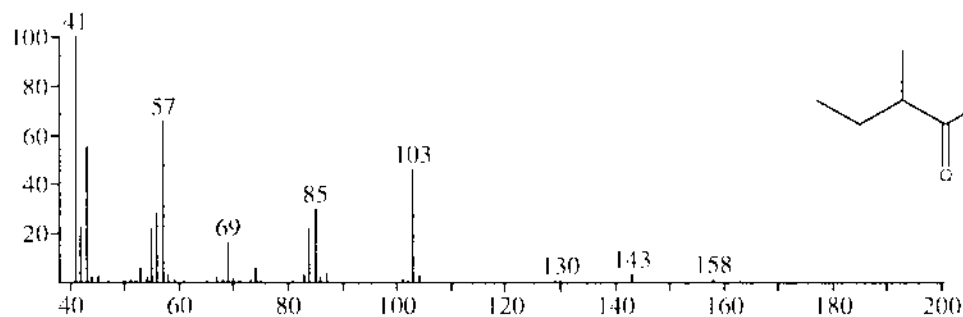
RT: 15.86 AI: 1202 KI: 1202 **Butanoate <3-methylpentyl, 3-methyl->**

CAS#: 83783-89-5 MF: C₁₁H₂₂O₂ FW: 186 MSD LIB#: 1584

CN: butanoic acid, 2-methyl-, 3-methylpentyl ester

Synonyms: none

Source: *Lomatium dissectum* ex Vasu Dev



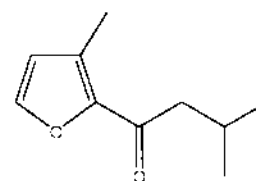
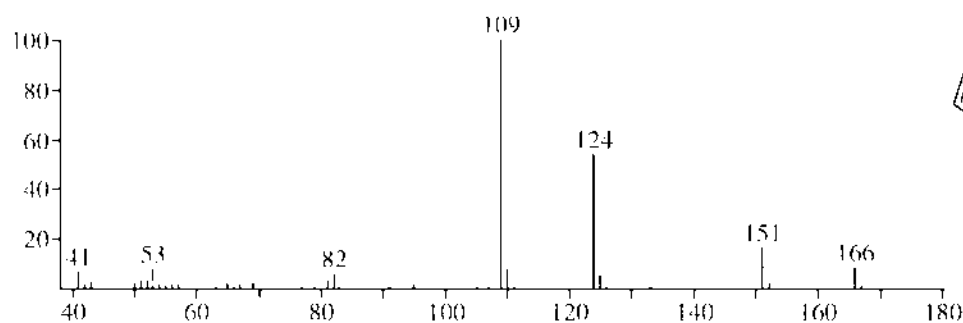
RT: 15.86 AI: 1202 KI: 1202 **Elsholtzia ketone**

CAS#: 488-05-1 MF: C₁₀H₁₄O₂ FW: 166 MSD LIB#: 654

CN: 1-butanone, 3-methyl-1-(3-methyl-2-furanyl)-

Synonyms: elsholtzione

Source: *Elsholtzia cristata* ex O. Vostrowsky, Planta Med. 3:268(1987)



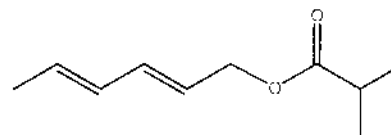
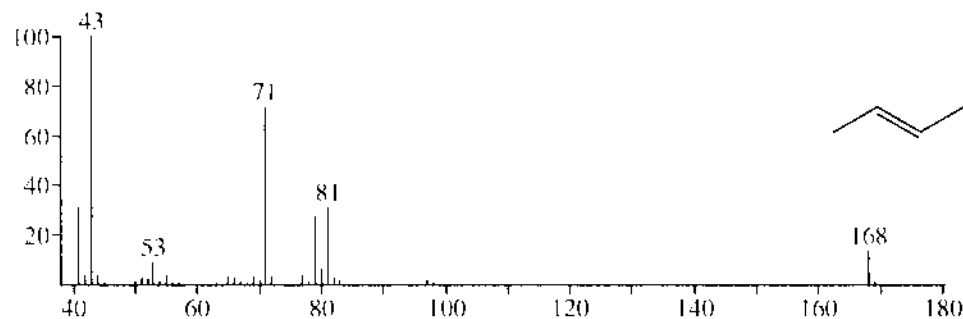
RT: 15.90 AI: 1202 KI: 1203 **Hexadienol isobutanoate <(2E,4E)->**

CAS#: 000-00-0 MF: C₁₀H₁₆O₂ FW: 168 MSD LIB#: 2101

CN: 2,4-hexadien-1-ol, isobutyrate, (2E,4E)-

Synonyms: none

Source: Bedoukian Res.



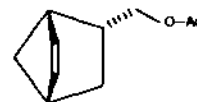
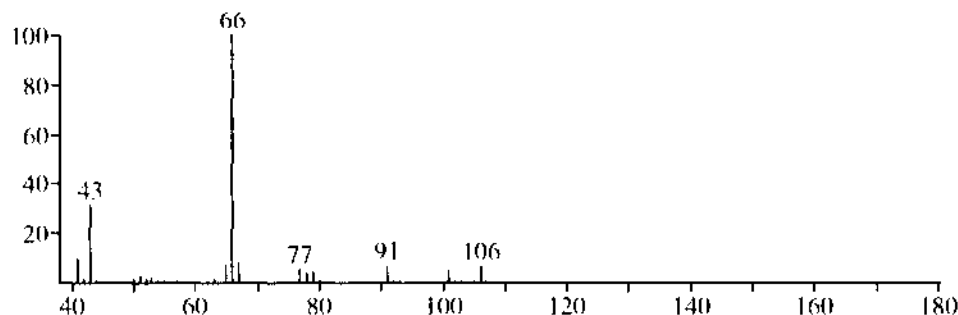
RT: 15.90 AI: 1202 KI: 1203 **Norbornene-2-methanol acetate <exo-5->**

CAS#: 128435-13-2 MF: C₁₀H₁₄O₂ FW: 166 MSD LIB#: 1176

CN: bicyclo(2.2.1)hept-5-ene-2-methanol, acetate, exo-

Synonyms: none

Source: acetylation of norbornene-2-methanol(6259)



RT: 15.97 AI: 1204 KI: 1205 **Verbenone**

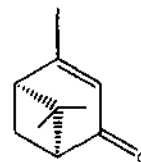
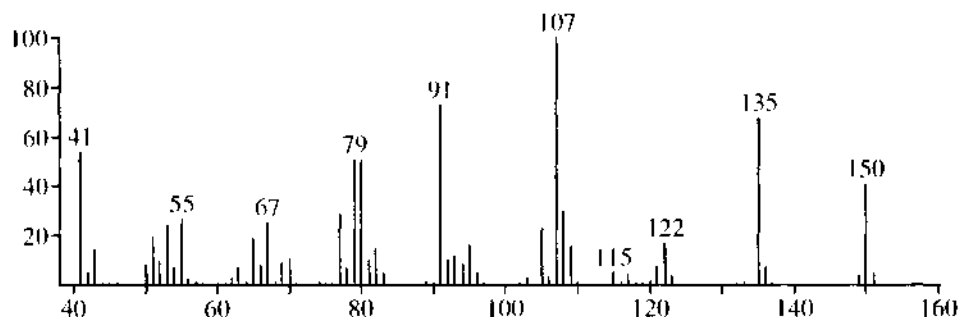
CAS#: 80-57-9 MF: C₁₀H₁₄O FW: 150 MSD LIB#: 1550

CN: 4,6,6-trimethyl bicyclo-(3.1.1)hept-3-en-2-one

Synonyms: 2-pinen-4-one

Source: ref. cpd. ex Tom Phillips, UF; 15.58% *Rosmarinus officinalis*.

Gida Sanyii 1:20(1988); 10.27% *Magnolia grandiflora*; 8.85% *Micromeria congesta*



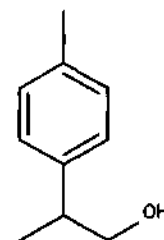
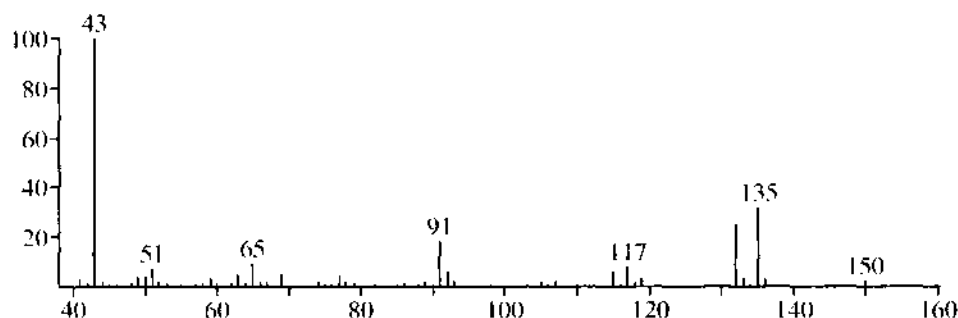
RT: 15.98 AI: 1204 KI: 1205 **Cymen-9-ol <p->**

CAS#: 4371-50-0 MF: C₁₀H₁₄O FW: 150 MSD LIB#: 547

CN: benzeneethanol,β,4-dimethyl-

Synonyms: 2-p-tolylpropan-1-ol

Source: Roure Bertrand ex H. Hills



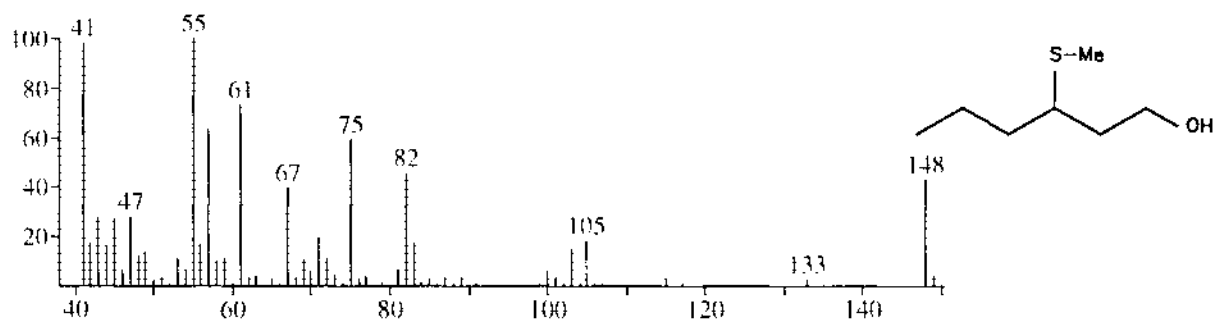
RT: 16.10 AI: 1207 KI: 1208 **Hexanol <3-methylthio-1->**

CAS#: 51755-66-9 MF: C₇H₁₆O S FW: 148 MSD LIB#: 801

CN: 1-hexanol, 3-(methylthio)-

Synonyms: none

Source: Aldrich Chem. ex Art Tucker



RT: 16.10 AI: 1207 KI: 1208 **Piperitol <trans->**

CAS#: 16721-39-4 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1328

CN: 2-cyclohexen-1-ol, 3-methyl-6-(1-methylethyl)-, trans-

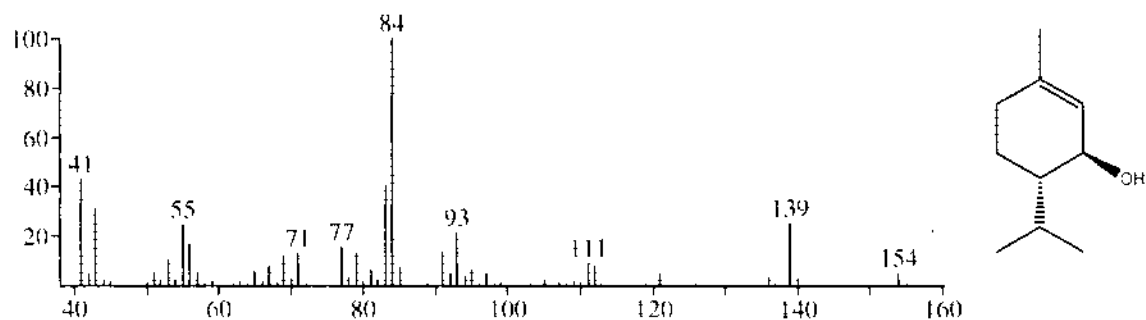
Synonyms: p-menth-1-en-3-ol, trans-

Source: ref. cpd. ex E. von Rudloff; 8.30% *Cymbopogon jwarancusa*,

p. 317, in: Flav. & Frag.: A World Persp., Lawrence, et al. (eds.),

Proc. 10th Intl. Cong. of Ess. Oils, Elsevier, Amsterdam (1988); 7.40% *Citrus paradisi*;

0.70% *Zingiber cassumunar*



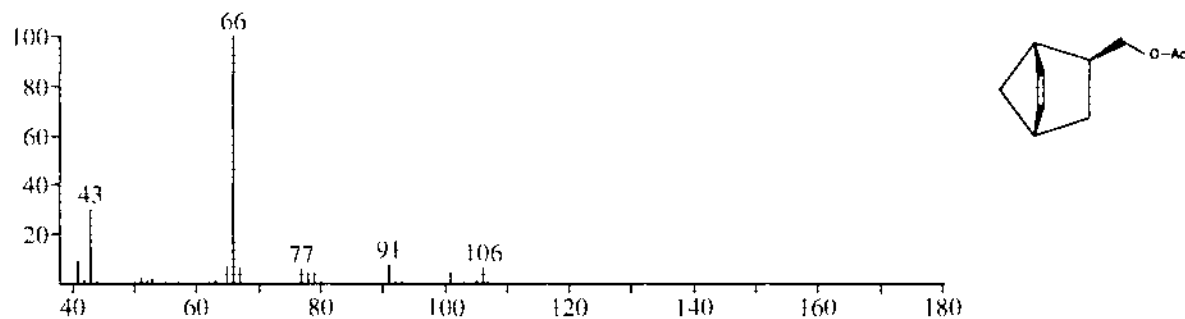
RT: 16.12 AI: 1207 KI: 1208 **Norbornene-2-methanol acetate <endo-5->**

CAS#: 16053-06-8 MF: C₁₀H₁₄O₂ FW: 166 MSD LIB#: 1177

CN: bicyclo(2.2.1)hept-5-ene-2-methanol, acetate, endo-

Synonyms: none

Source: acetylation of norbornene-2-methanol(6259)



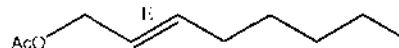
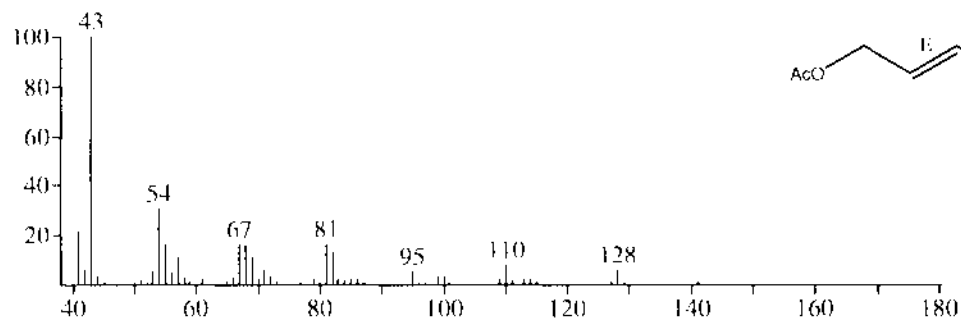
RT: 16.14 AI: 1208 KI: 1209 **Octenol acetate <(2E)->**

CAS#: 3913-80-2 MF: C₁₀H₁₈O₂ FW: 170 MSD LIB#: 2078

CN: 2-octen-1-ol, acetate (2E)-

Synonyms: none

Source: Bedoukian Res.



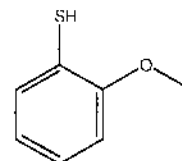
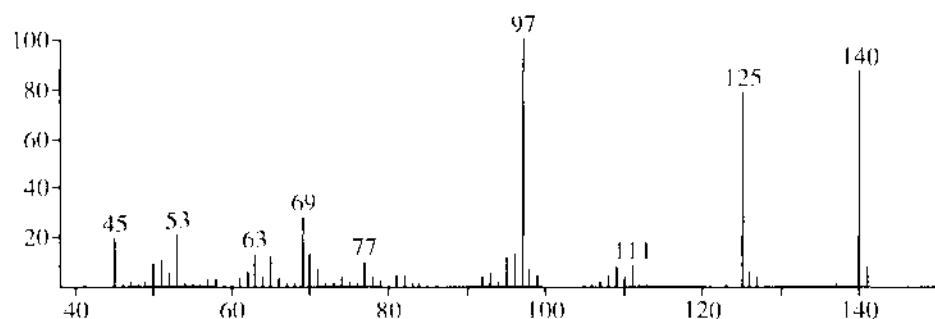
RT: 16.23 AI: 1210 KI: 1211 **Methoxythiophenol <2->**

CAS#: 7217-59-6 MF: C₇H₈OS FW: 140 MSD LIB#: 1652

CN: 2-methoxybenzenethiol

Synonyms: thioguaiacol, benzenethiol <o-methoxy->

Source: Aldrich Chem.



RT: 16.24 AI: 1210 KI: 1212 **Nonadienal <(2E,4E)->**

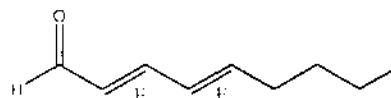
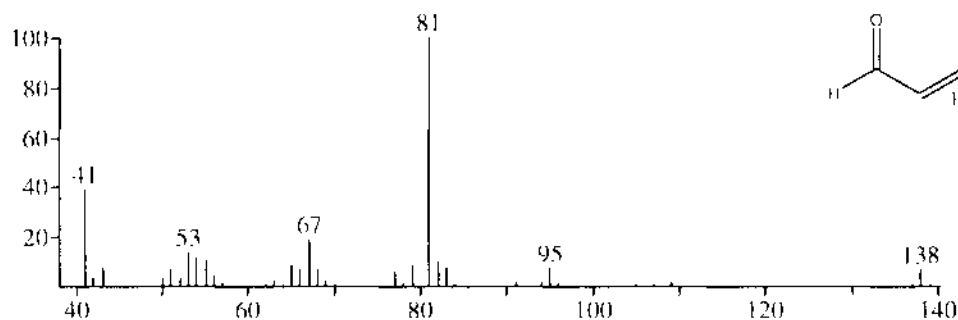
CAS#: 5910-87-2 MF: C₉H₁₄O FW: 138 MSD LIB#: 1161

CN: 2,4-nonadienal, (E,E)-

Synonyms: nonadienal, trans-2,trans-4

Source: Aldrich Chem. ex Art Tucker; 0.25% *Rhus coriaria*, Dragoco Bericht 3:81(1993);

0.01% *Juniperus communis* (leaf)



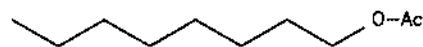
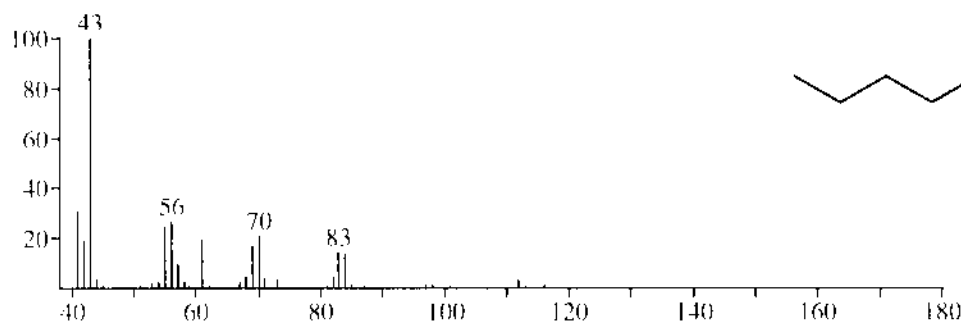
RT: 16.30 AI: 1211 KI: 1213 **Octanol acetate**

CAS#: 112-14-1 ME: C₁₀H₂₀O₂ FW: 172 MSD LIB#: 1204

CN: acetic acid, octyl ester

Synonyms: octyl acetate; capryl acetate

Source: acetylation of octanol(6210)



RT: 16.34 AI: 1212 KI: 1214 **Dihydro carveol <iso->**

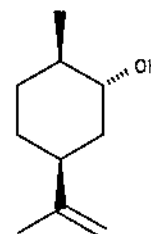
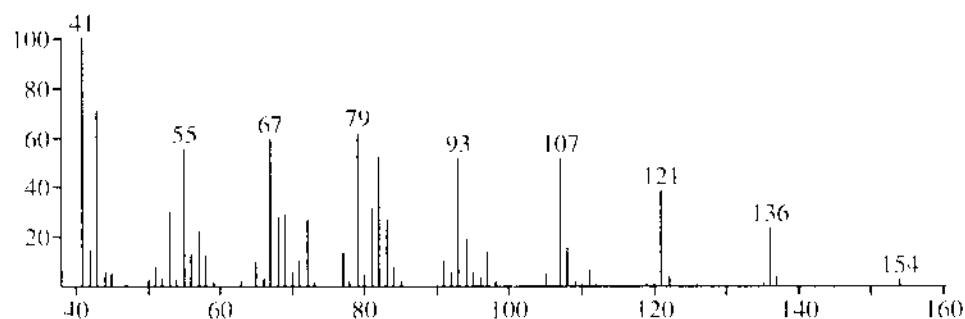
CAS#: 18675-35-9 ME: C₁₀H₁₈O FW: 154 MSD LIB#: 601

CN: cyclohexanol, 2-methyl-5-(1-methylethenyl)-, (1 α ,2 β ,5 β)-

Synonyms: p-menth-8-en-2-ol

Source: ref. epd., S. Geribaldi, France; 0.59% *Hyptis mutabilis*, JEOR 7:81(1995);

0.20% *Anethum graveolens*; 0.10% *Santolina neapolitana*



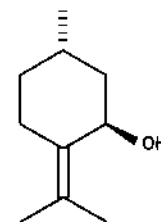
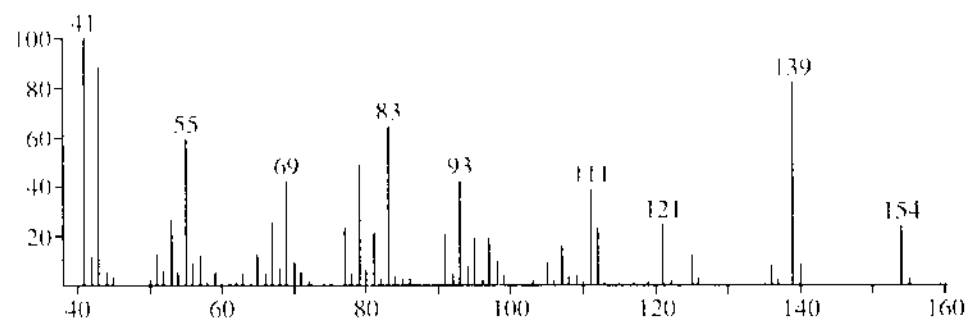
RT: 16.35 AI: 1213 KI: 1214 **Pulegol <trans->**

CAS#: 22472-79-3 ME: C₁₀H₁₈O FW: 154 MSD LIB#: 589

CN: cyclohexanol, 5-methyl-2-(1-methylethylidene)-, (1S-trans)-

Synonyms: p-menth-4(8) en-3 ol

Source: *Dicerandra frutescens* oil ex Mark Deyrup, FL.



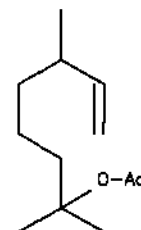
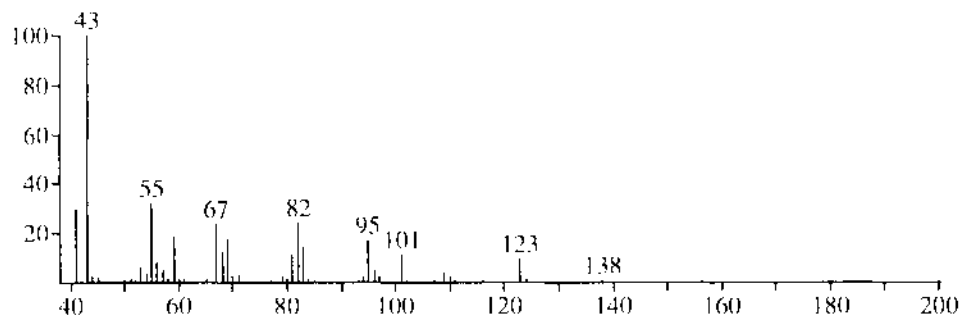
RT: 16.39 AI: 1214 KI: 1215 **Dihydro myrcenol acetate**

CAS#: 53767-93-4 MF: C₁₂H₂₂O₂ FW: 198 MSD LIB#: 593

CN: 7-octen-2-ol, 2,6-dimethyl-, acetate

Synonyms: none

Source: acetylation of dihydro myrcenol(6547)



RT: 16.39 AI: 1214 KI: 1215 **Fragranol**

CAS#: 108645-56-3 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 234

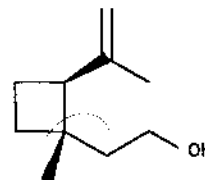
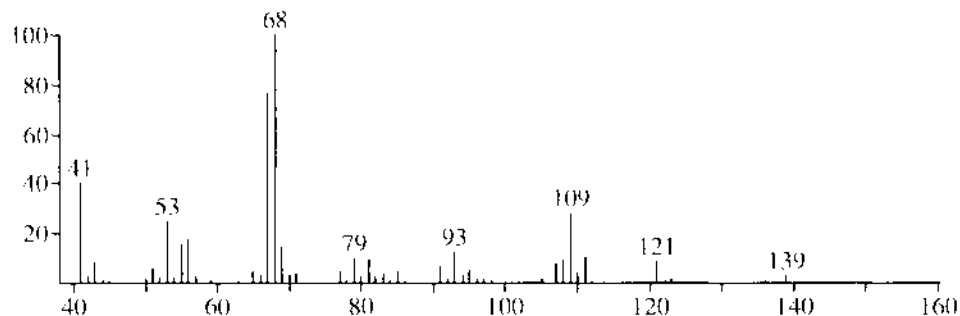
CN: cyclobutane ethanol, 1-methyl-2-(1-methylethenyl)-, trans-

Synonyms: none

Source: *Artemisia vestita* ex P. Weyerstahl; 9.10% *Achillea wilhelmsii*.

p. 85, in: Prog. in Ess. Oil Research, E.-J. Brunke, Ed., Gruyter Publ., Berlin(1986);

0.51% *Artemisia vestita*



RT: 16.42 AI: 1214 KI: 1216 **Linalool formate**

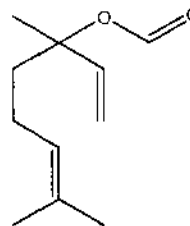
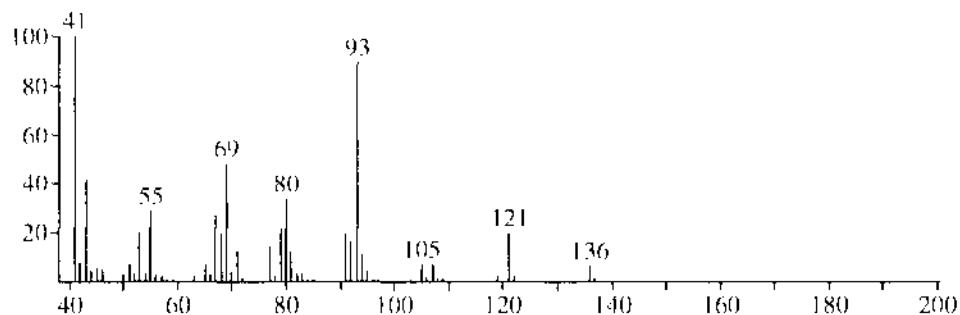
CAS#: 115-99-1 MF: C₁₁H₁₈O₂ FW: 182 MSD LIB#: 1009

CN: 1,6-octadien-3-ol, 3,7-dimethyl-, formate

Synonyms: vetiverol

Source: reed, as vetiverol from Art Tucker, identified as Linalool formate by P. Weyerstahl;

0.44% *Citrus sinensis*, JEOR 7:105(1995)



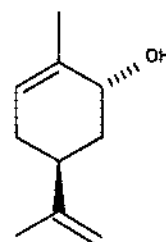
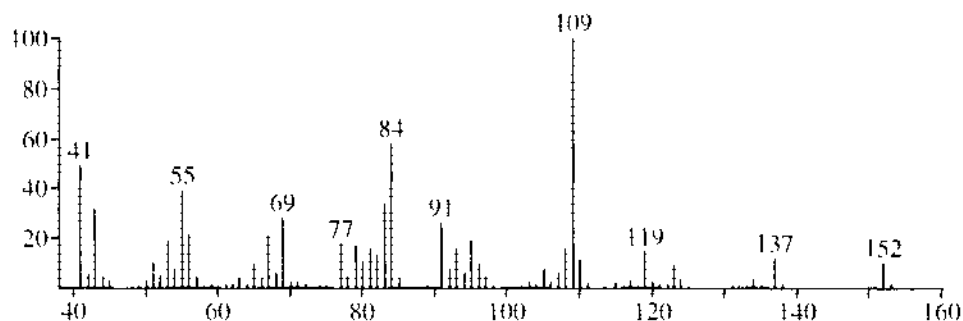
RT: 16.44 AI: 1215 KI: 1216 **Carveol <trans>**

CAS#: 1197-07-5 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 370

CN: 2-cyclohexen-1-ol, 2-methyl-5-(1-methylethenyl)-, trans-

Synonyms: p-mentha-6,8-dien-2-ol, trans-

Source: *Juniperus flaccida* v. *poblana*, RP Adams #2578, 3.70% *Achillea millefolium*, FFJ 11:265(1996); 2.30% *Fokienia hodginsii*; 2.28% *Chenopodium ambrosioides*



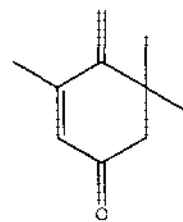
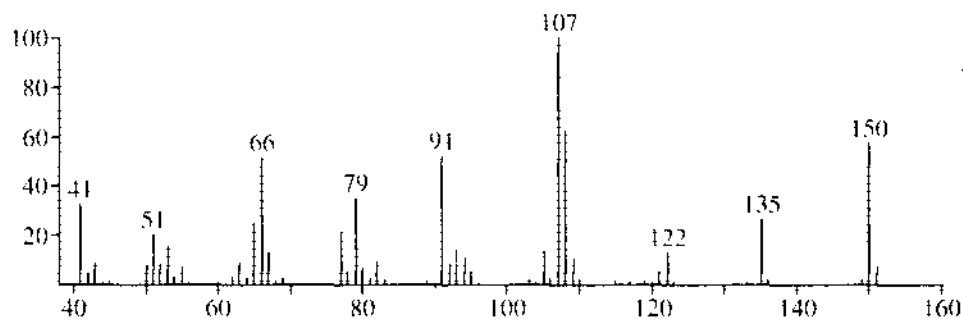
RT: 16.48 AI: 1216 KI: 1217 **Isophorone <4-methylene>**

CAS#: 20548-00-9 MF: C₁₀H₁₄O FW: 150 MSD LIB#: 967

CN: cyclohex-2-enone, 4-methylen-3,5,5-trimethyl-

Synonyms: none

Source: keto tabac + methylene deriv. ex P. Weyerstahl



RT: 16.53 AI: 1217 KI: 1219 **Cinnamaldehyde <(Z)>**

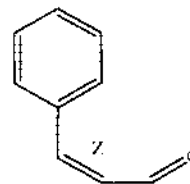
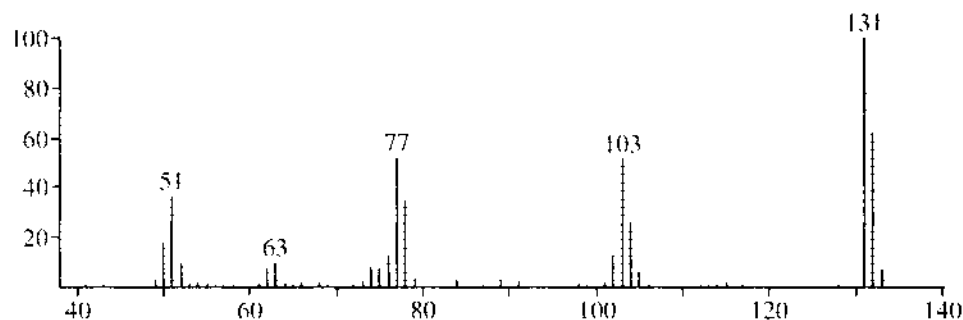
CAS#: 57194-69-1 MF: C₉H₈O FW: 132 MSD LIB#: 443

CN: phenyl-2-propenal <3->

Synonyms: phenylacrolein, cinnamal

Source: Pfaltz & Bauer ex H. Hills; Cinnamon Oil; Cinnamic Aldehyde;

Phenylacrolein; Cinnamal



RT: 16.55 AI: 1217 KI: 1219 **Cyclocitral <β->**

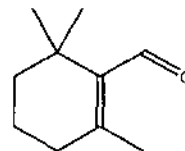
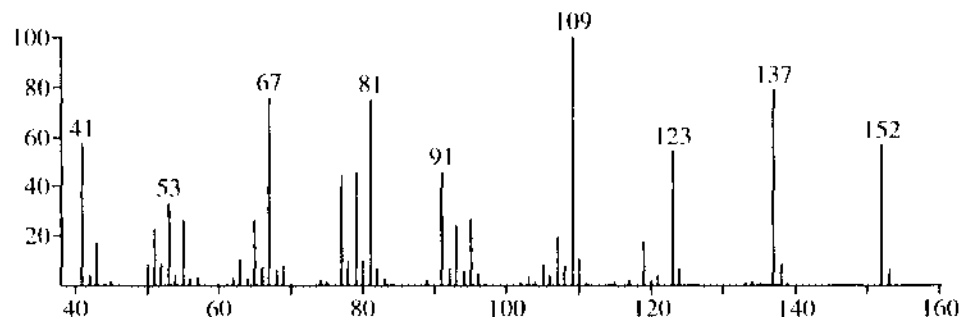
CAS#: 432-25-7 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1654

CN: 1-cyclohexene-1-carboxaldehyde, 2,6,6-trimethyl-

Synonyms: none

Source: Aldrich Chem.: 5.82% *Fragaria x ananassa* (leaf), JEOR 5:109(1993);

0.40% *Populus deltoides*; 0.19% *Acacia farnesiana*



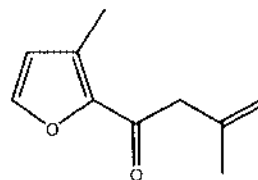
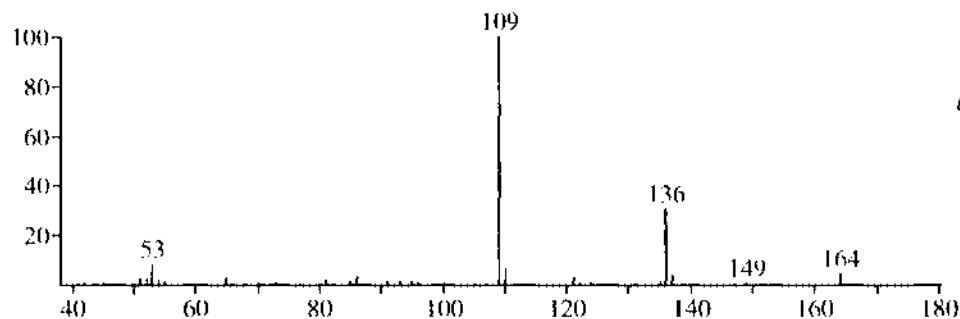
RT: 16.55 AI: 1217 KI: 1219 **Elsholtzia ketone <α-dehydro->**

CAS#: 78173-38-3 MF: C₁₀H₁₂O₂ FW: 164 MSD LIB#: 655

CN: 3-buten-1-one, 3-methyl-1-(3-methyl-2-furanyl)-

Synonyms: elsholtziona <α-dehydro->

Source: *Elsholtzia cristata* ex O. Vostrowsky, Planta Med. 3:268(1987)



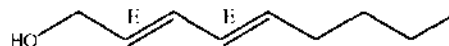
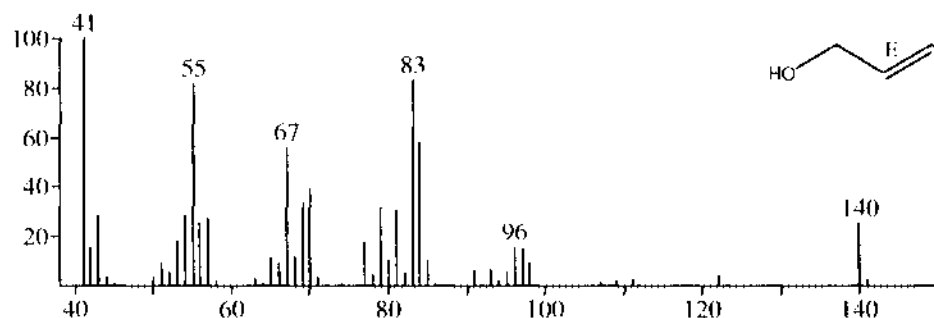
RT: 16.55 AI: 1217 KI: 1219 **Nonadienol <(2E,4E)->**

CAS#: 64576-90-5 MF: C₉H₁₆O FW: 140 MSD LIB#: 2105

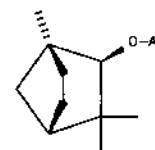
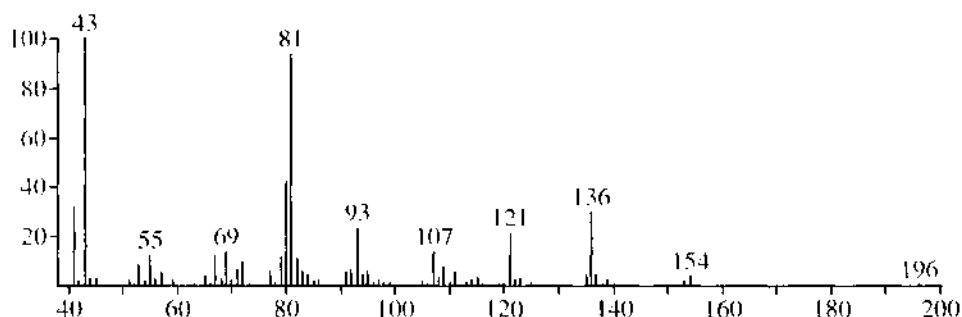
CN: 2,4-nonadien-1-ol, (2E,4E)-

Synonyms: none

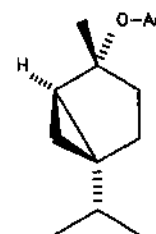
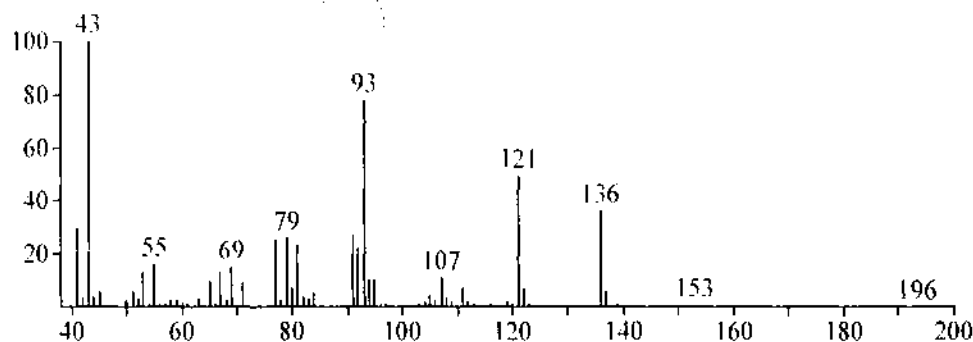
Source: Bedoukian Res.



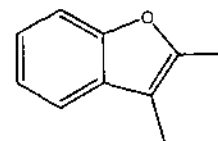
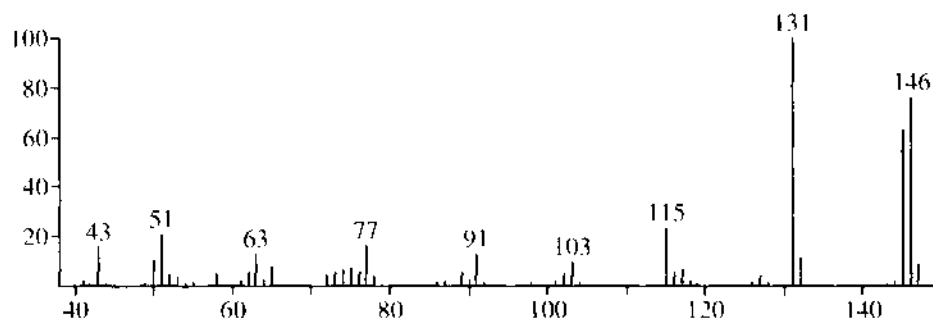
RT: 16.57 AI: 1218 KI: 1220 **Fenchyl acetate <endo->**
 CAS#: 4057-31-2 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 2
 CN: bicyclo(2.2.1)heptan-2-ol, 1,3,3-trimethyl-, acetate, endo-
 Synonyms: α -fenchyl acetate
 Source: *Abies siberica* leaf oil ex E. von Rudloff



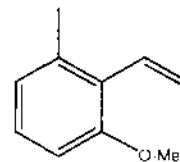
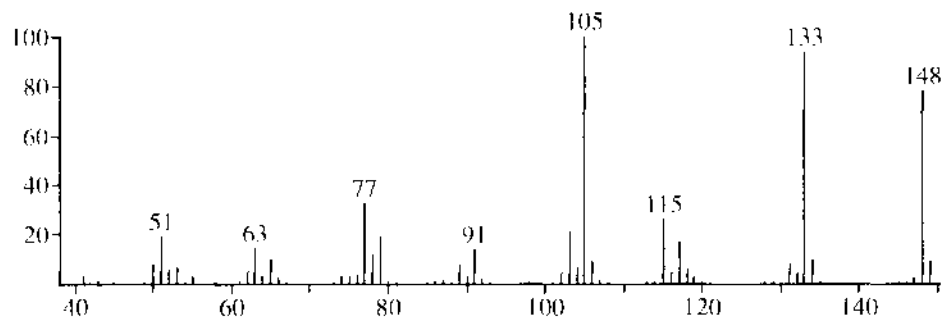
RT: 16.62 AI: 1219 KI: 1221 **Sabinene hydrate acetate <cis-> (Ac vs. IPP)**
 CAS#: 77318-48-0 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 517
 CN: bicyclo(3.1.0)hexan-2-ol, 2-methyl-5-(1-methylethyl)-, acetate, (1 α ,2 α ,5 α)-
 Synonyms: cis-4-thujanol acetate
 Source: *Cupressus sargentii* leaf oil ex Larry Cool: 3.00% *Majorana hortensis*,
 FEJ 2:55(1987); 0.09% *Citrus bergamia*



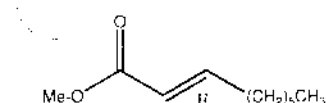
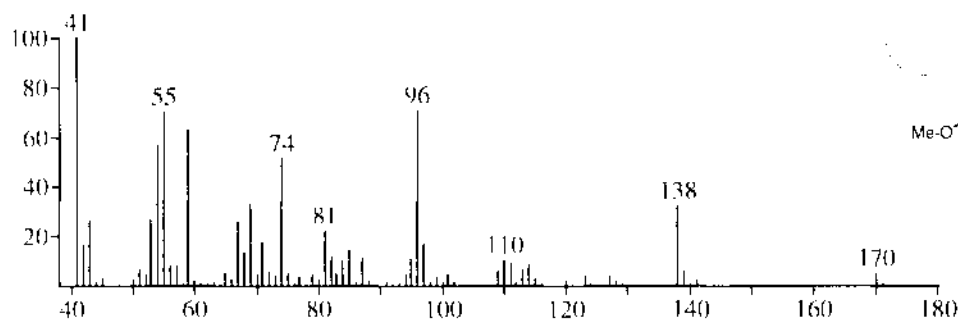
RT: 16.64 AI: 1219 KI: 1221 **Benzofuran <2,3-dimethyl->**
 CAS#: 3782-00-1 MF: C₁₀H₁₀O FW: 146 MSD LIB#: 281
 CN: benzofuran, 2,3-dimethyl-
 Synonyms: none
 Source: Aldrich Chem.



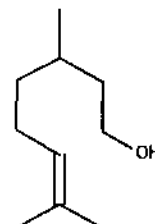
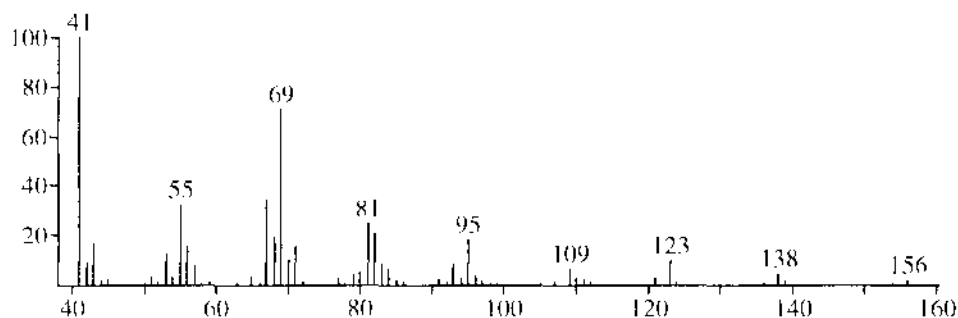
RT: 16.64 AI: 1219 KI: 1221 **Coahuilensol, methyl ether**
 CAS#: 72473-09-7 ME: C₁₀H₁₂O FW: 148 MSD LIB#: 2089
 CN: benzene, 2-ethenyl-1-methoxy-3-methyl-
 Synonyms: none
 Source: *Juniperus coahuilensis* v. *arizonica* oil, RP Adams #7637,
 Identification by NMR, Vasu Dev



RT: 16.73 AI: 1221 KI: 1224 **Methyl-(2E)-nonenoate**
 CAS#: 14952-06-8 ME: C₁₀H₁₈O₂ FW: 170 MSD LIB#: 2182
 CN: 2-nonenic acid, methyl ester, (2E)-
 Synonyms: methyl trans-2-nonenate
 Source: Bedoukian Res.



RT: 16.80 AI: 1223 KI: 1225 **Citronellol**
 CAS#: 106-22-9 ME: C₁₀H₂₀O FW: 156 MSD LIB#: 1363
 CN: dimethyl-6-octen-1-ol <3,7->
 Synonyms: rosinol; cephalol; β-citronellol
 Source: Rose oil (absolute) ex Firmenich ex AF Thomas; 59.98% *Rosa rugosa*, FIJ 5:219(1990);
 50.80% *Pelargonium graveolens*; 50.00% *Rosa damascene*



RT: 16.83 AI: 1223 KI: 1226 **Methyl nonanoate**

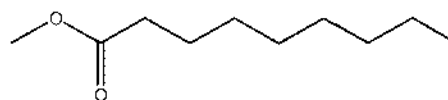
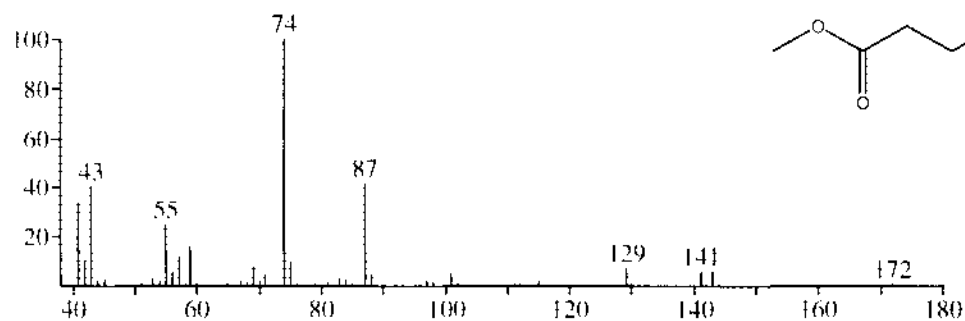
CAS#: 1731-84-6 MF: C₁₀H₂₀O₂ FW: 172 MSD LIB#: 1103

CN: nonanoic acid, methyl ester

Synonyms: methyl pelargonate

Source: Aldrich Chem.; 0.44% *Humulus lupulus*, . p. 59, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong(1993);

0.09% *Osmanthus fragrans*; 0.05% *Schinus molle*



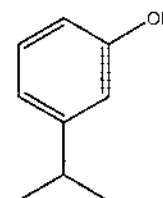
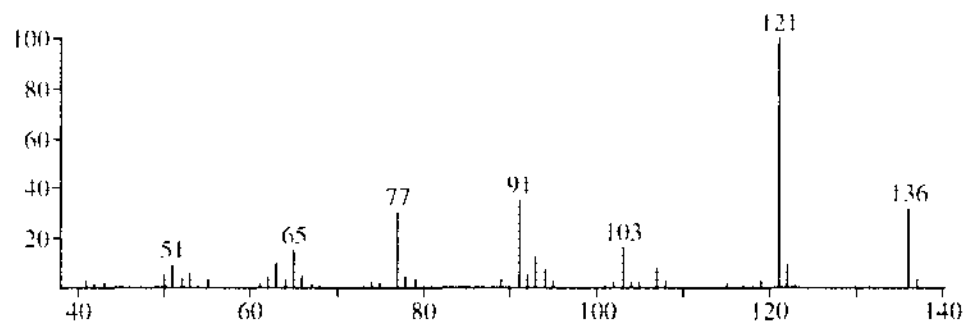
RT: 16.85 AI: 1224 KI: 1227 **Cumenol <m->**

CAS#: 618-45-1 MF: C₉H₁₂O FW: 136 MSD LIB#: 1628

CN: phenol, 3-(1-methylethyl)-

Synonyms: phenol <m-isopropyl->.

Source: Aldrich Chem.



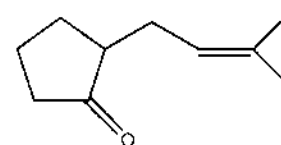
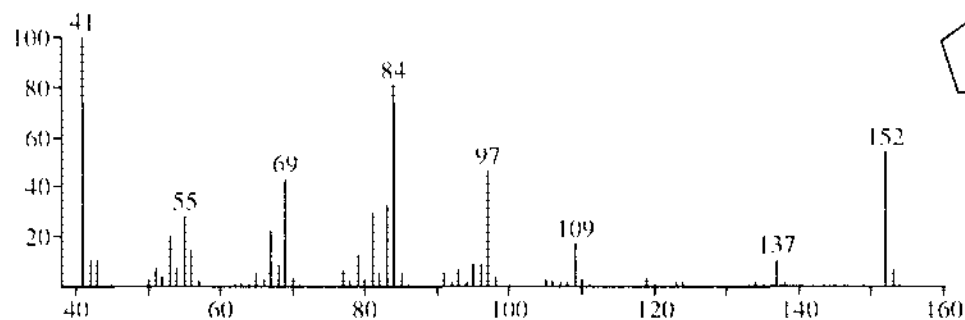
RT: 16.86 AI: 1224 KI: 1227 **Prenyl cyclopentanone <2->**

CAS#: 2520-60-7 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 2135

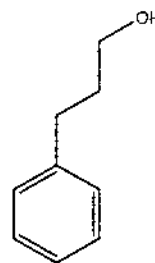
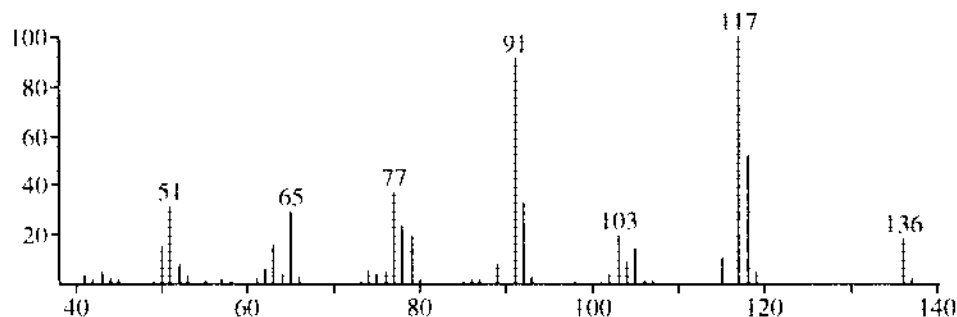
CN: cyclopentanone, 2-(3-methyl-2-butenyl)-

Synonyms: none

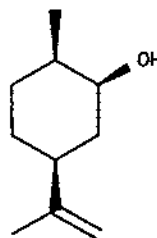
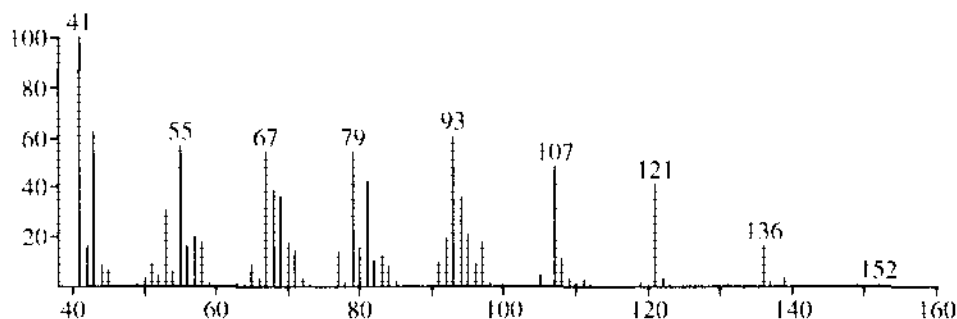
Source: Bedoukian Res.



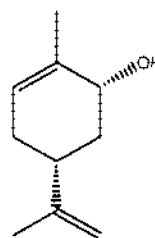
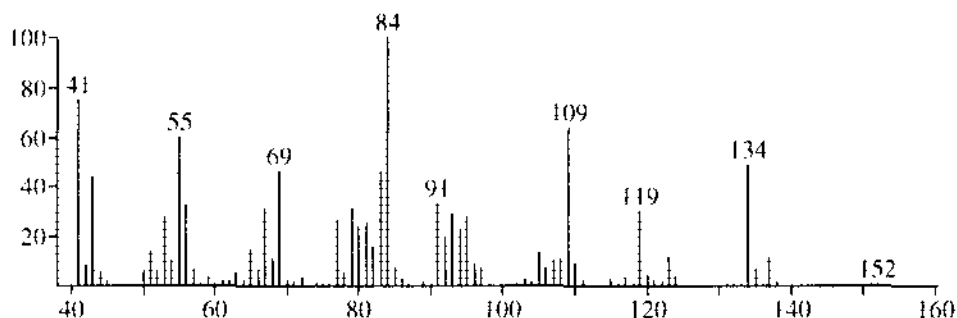
RT: 16.87 AI: 1224 KI: 1227 **Hydrocinnamyl alcohol**
 CAS#: 122-97-4 MF: C₉H₁₂O FW: 136 MSD LIB#: 1696
 CN: benzenepropanol
 Synonyms: hydrocinnamic alcohol, 3-phenylpropanol, 3-benzenepropanol
 Source: Aldrich Chem.



RT: 16.93 AI: 1226 KI: 1228 **Dihydro carveol <neoiso->**
 CAS#: 18675-34-8 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 603
 CN: cyclohexanol, 2-methyl-5-(1-methylethenyl)-, (1a,2a,5a)-
 Synonyms: none
 Source: ref. cpd., S. Geribaldi, France



RT: 16.94 AI: 1226 KI: 1229 **Carveol <cis->**
 CAS#: 1197-06-4 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 372
 CN: 2-cyclohexen-1-ol, 2-methyl-5-(1-methylethenyl)-, cis-
 Synonyms: p-mentha-6,8-dien-2-ol, cis-
 Source: SCM Chemicals ex H. Hills; 5.00% *Achillea millefolium*, FFI 11:265(1996);
 4.91% *Chenopodium ambrosioides*; 1.35% *Cymbopogon martini*



RT: 16.94 AI: 1226 KI: 1229 **Ocimenone <(Z)->**

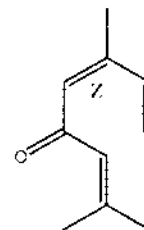
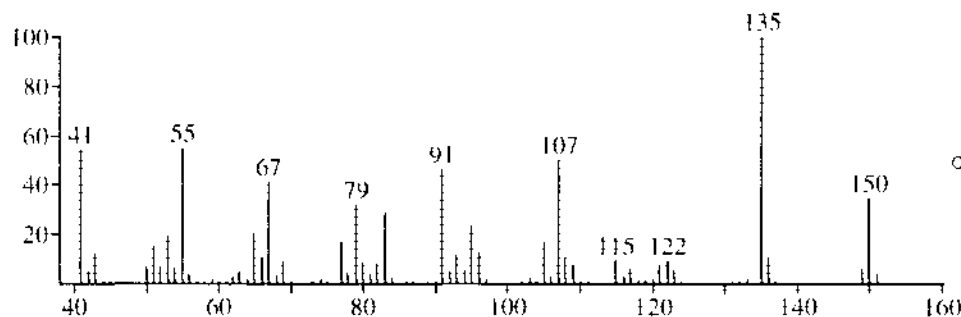
CAS#: 33746-71-3 MF: C₁₀H₁₄O FW: 150 MSD LIB#: 1459

CN: 2,5,7-octatrien-4-one, 2,6-dimethyl-, (Z)-

Synonyms: cis-ocimenone

Source: *Tagetes minuta* oil ex E. Hethelyi, Hungary; 45.59% *Tagetes argentina*,

JEOR 5:85(1993); 32.40% *Lippia javanica*; 23.18% *Tagetes riojana*



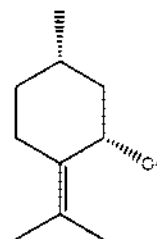
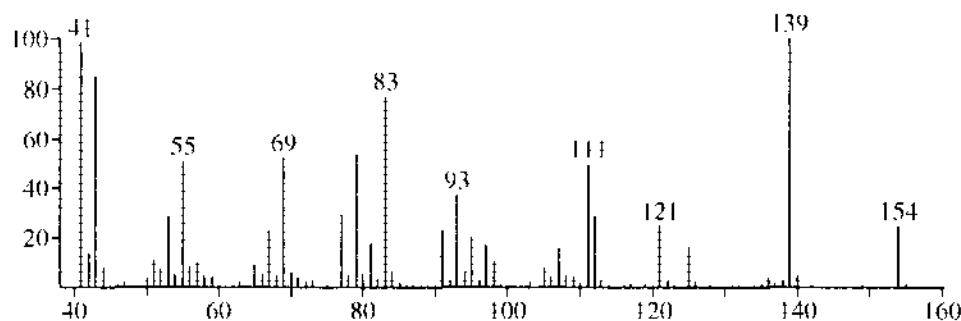
RT: 16.95 AI: 1226 KI: 1229 **Pulegol <cis->**

CAS#: 22472-80-6 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1350

CN: cyclohexanol, 5-methyl-2-(1-methylethylidene)-, (1R-cis)-

Synonyms: p-menth-4(8)-en-3-ol, (1R,3R)-

Source: pulegols from *Mentha* ex J. Barroso, Portugal



RT: 16.97 AI: 1227 KI: 1229 **Nerol**

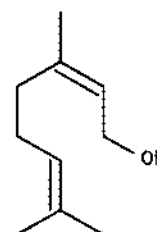
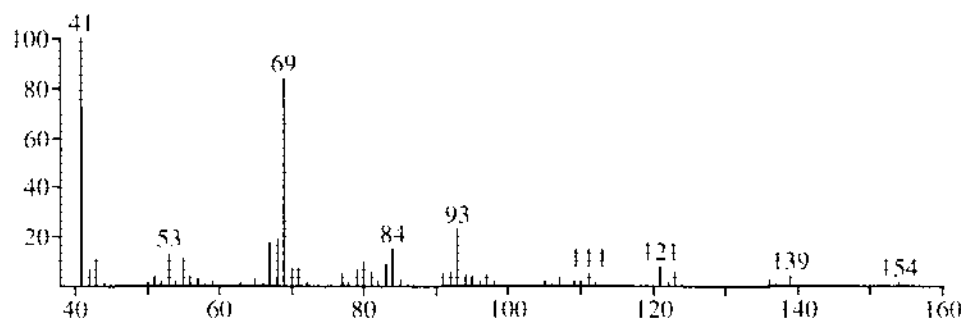
CAS#: 106-25-2 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1138

CN: 3,7-dimethyl-2,6-octadien-1-ol, (Z)-

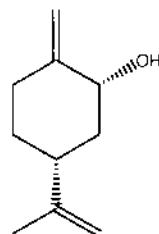
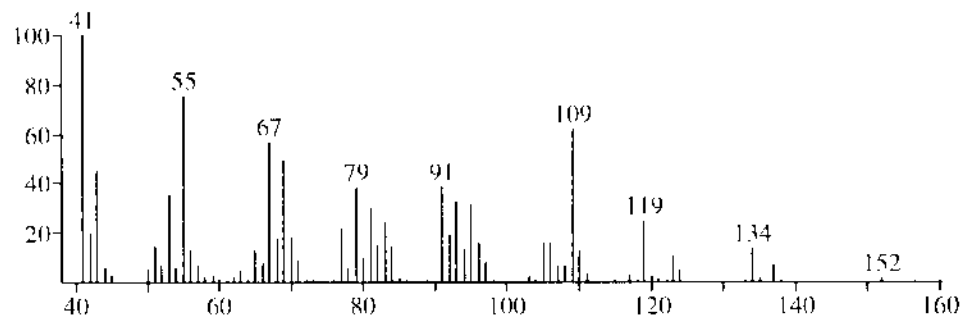
Synonyms: geraniol, (Z)-

Source: Lavender oil ex Firmenich ex AF Thomas; 21.70% *Rosa damascena*,

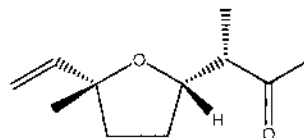
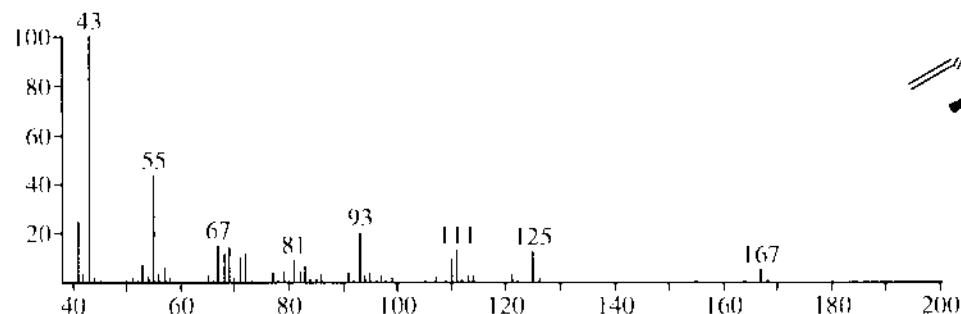
FFJ 7:195(1992); 14.76% *Cymbopogon martini*; 14.26% *Rosa centifolia*



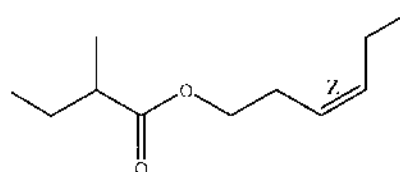
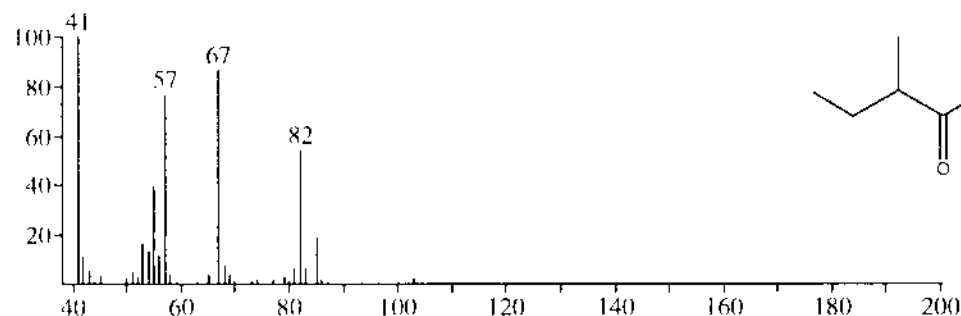
RT: 17.00 AI: 1227 KI: 1230 **Mentha-1(7),8-dien-2-ol <cis-p>**
 CAS#: 22626-43-3 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1072
 CN: cyclohexanol, 2-methylene-5-(1-methylethenyl)-, cis-
 Synonyms: none
 Source: ref. epd. ex Guy Collin



RT: 17.02 AI: 1228 KI: 1231 **Davanone <nor>**
 CAS#: 54933-91-4 MF: C₁₁H₁₈O₂ FW: 182 MSD LIB#: 196
 CN: 2-butanone, 3-(5-ethenyltetrahydro-5-methyl-2-furanyl)-, (2S-(2α(R*),5α))-
 Synonyms: nordavanone
 Source: Armoise a davanone ex Guy Collin; 1.50% *Artemisia pallens*,
 Phytochem. 30:549(1991); 0.10% *Artemisia judaica*



RT: 17.07 AI: 1229 KI: 1232 **Hexenyl 2-methyl butanoate <(3Z)>**
 CAS#: 53398-85-9 MF: C₁₁H₂₀O₂ FW: 184 MSD LIB#: 1588
 CN: butanoic acid, 2-methyl-, (3Z)-3-hexenyl ester
 Synonyms: none
 Source: Aldrich Chem.



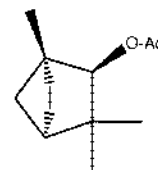
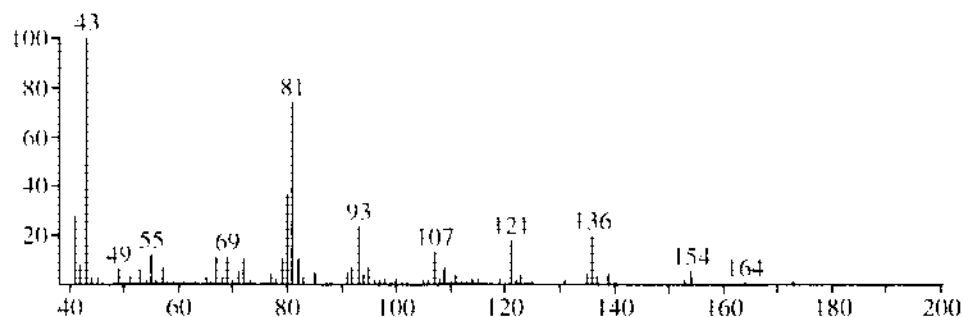
RT: 17.09 AI: 1229 KI: 1232 **Fenchyl acetate <exo->**

CAS#: 56282-46-3 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 163

CN: bicyclo(2.2.1)heptan-2-ol, 1,3,3-trimethyl-, acetate, exo-

Synonyms: β -fenchyl acetate

Source: Sweet anise(*Foeniculum vulgare*) leaves, distilled RP Adams #5452



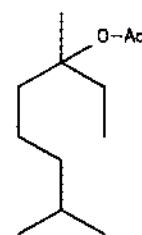
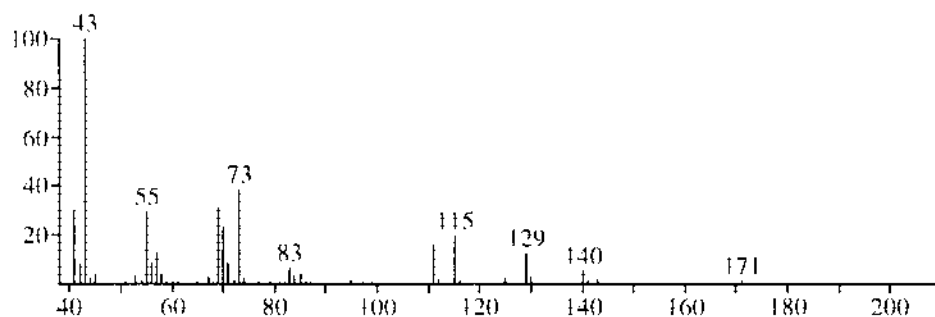
RT: 17.15 AI: 1231 KI: 1234 **Linalool acetate <tetrahydro->**

CAS#: 20780-48-7 MF: C₁₂H₂₄O₂ FW: 200 MSD LIB#: 1014

CN: 3-octanol, 3,7-dimethyl-, acetate

Synonyms: none

Source: acetylation of tetrahydro linalool(5893)



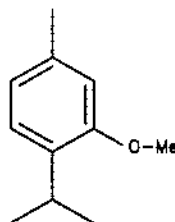
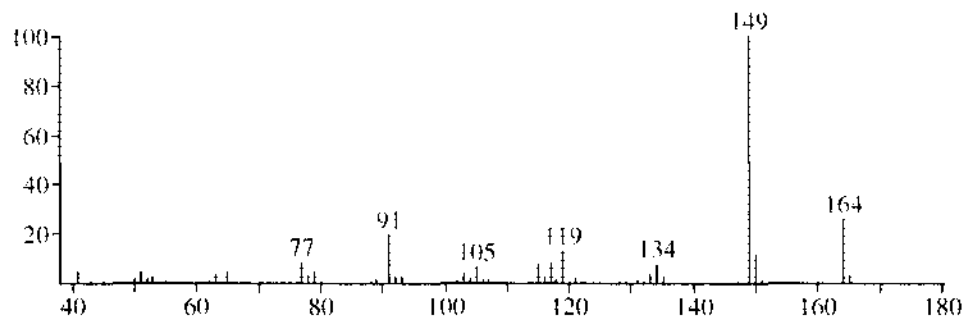
RT: 17.19 AI: 1232 KI: 1235 **Thymol, methyl ether**

CAS#: 1076-56-8 MF: C₁₁H₁₆O FW: 164 MSD LIB#: 1506

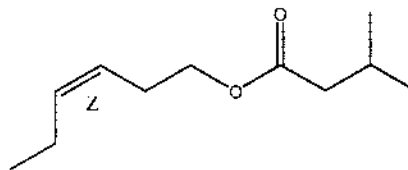
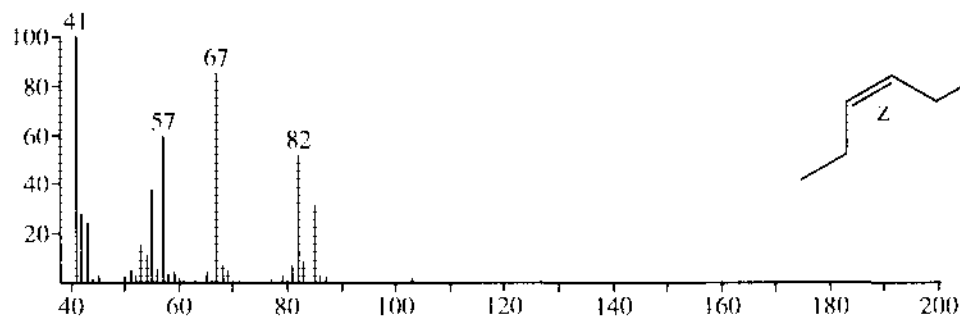
CN: benzene, 2-methoxy-4-methyl-1-(1-methylethyl)-

Synonyms: anisole, 2-isopropyl-5-methyl-, 3-methoxy-p-cymene

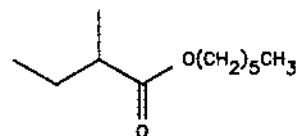
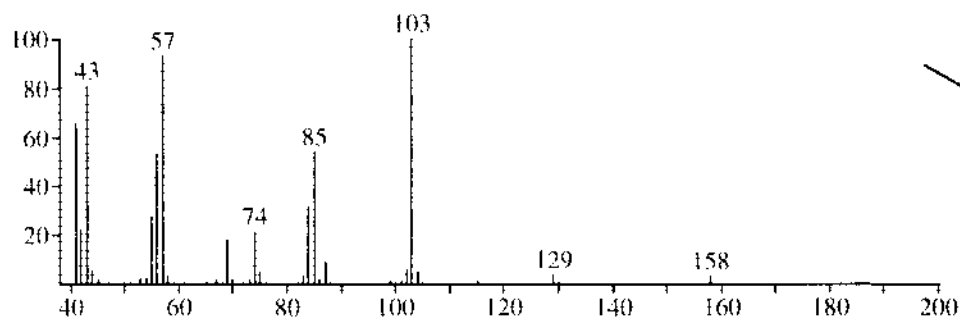
Source: distillation of thyme leaves (Schilling Co.), RP Adams #5426



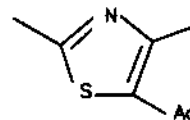
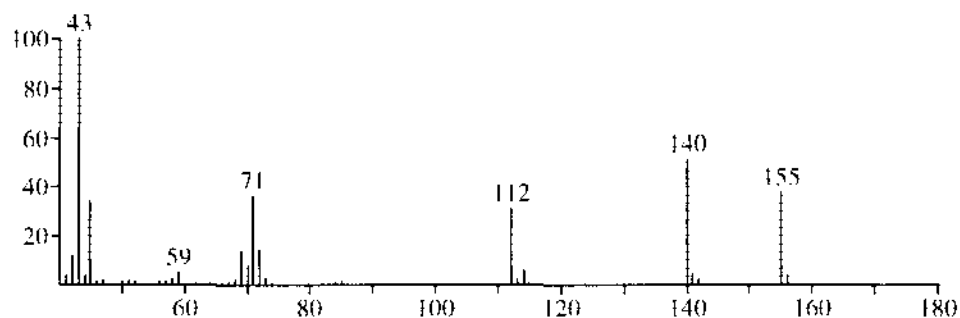
RT: 17.22 AI: 1232 KI: 1235 **Hexenyl 3-methyl butanoate <(3Z)->**
 CAS#: 35154-45-1 MF: C₁₁H₂₀O₂ FW: 184 MSD LIB#: 1589
 CN: butanoic acid, 3-methyl-, 3-hexenyl ester, (Z)-
 Synonyms: Isovaleric acid, 3-hexenyl ester, (Z)-
 Source: Aldrich Chem.



RT: 17.23 AI: 1233 KI: 1236 **Hexyl 2-methyl butanoate <n->**
 CAS#: 10032-15-2 MF: C₁₁H₂₂O₂ FW: 186 MSD LIB#: 187
 CN: butanoic acid, 2-methyl-, hexyl ester
 Synonyms: none
 Source: distillation of red delicious apples, RP Adams #5756; 0.30% *Aloysia triphylla*,
 JEOR 6:523(1994); 0.12% *Lavandula x hybrida*; 0.06% *Lavandula latifolia*



RT: 17.23 AI: 1233 KI: 1236 **Thiazole <5-acetyl-2,4-dimethyl->**
 CAS#: 38205-60-6 MF: C₇H₉NOS FW: 155 MSD LIB#: 1477
 CN: ethanone, 1-(2,4-dimethyl-5-thiazolyl)-
 Synonyms: none
 Source: Aldrich Chem. ex Art Tucker



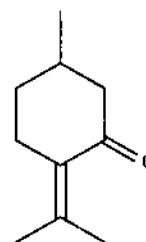
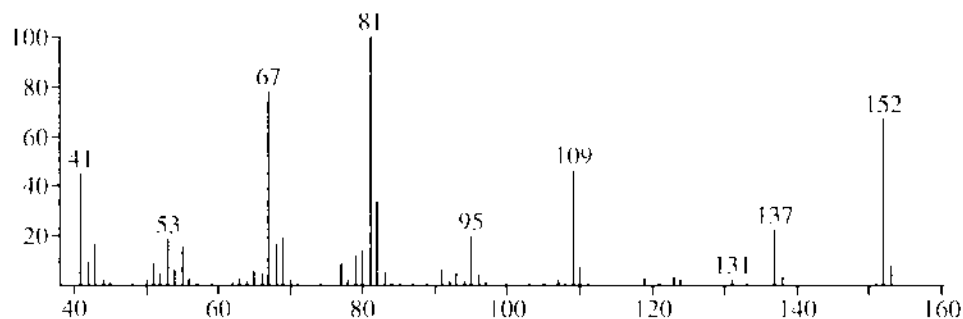
RT: 17.27 AI: 1233 KI: 1237 **Pulegone**

CAS#: 89-82-7 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1260

CN: methyl-2-(1-methylethylidene)cyclohexanone <5->

Synonyms: p-menth-4(8)-2-en-3-one

Source: Peppermint oil ex Lorann Oils: 96.90% *Acinos suaveolens*,
 Planta Medica 54:340(1988); 86.67% *Ziziphora tenuior*; 81.50% *Mentha arvensis*



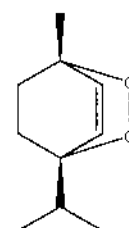
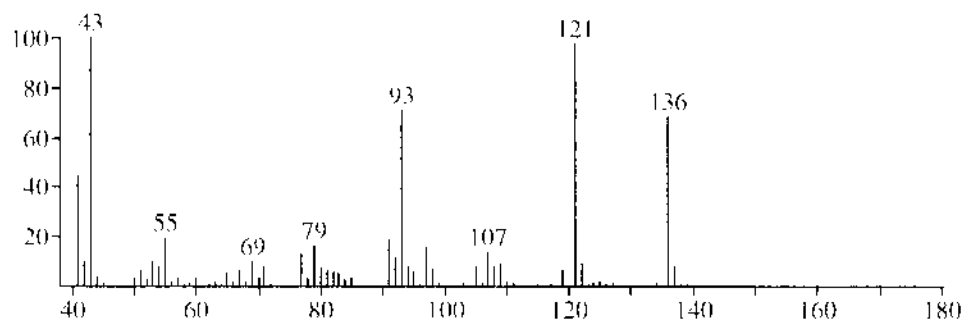
RT: 17.28 AI: 1234 KI: 1237 **Ascaridole**

CAS#: 512-85-6 MF: C₁₀H₁₆O₂ FW: 168 MSD LIB#: 1861

CN: 2,3-dioxabicyclo(2.2.2)oct-5-ene, 1-methyl-4-(1-methylethyl)-

Synonyms: none

Source: *Chenopodium* oil ex Theresa Chamblee: 62.12% *Artemisia molinieri*,
 JEOR 4:635(1992); 16.10% *Boldea fragrans*; 16.00% *Artemisia abrotanum*



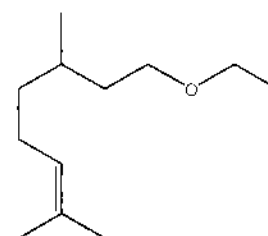
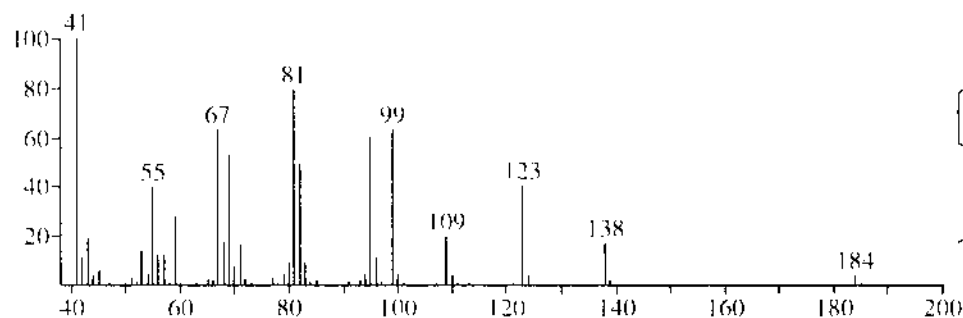
RT: 17.30 AI: 1234 KI: 1237 **Citronel**

CAS#: 69929-16-4 MF: C₁₂H₂₄O FW: 184 MSD LIB#: 2197

CN: 2-octene, 8-ethoxy-2,6-dimethyl-

Synonyms: none

Source: Bedoukian Res.



RT: 17.30 AI: 1234 KI: 1237 **Decen-2-one <(3E)->**

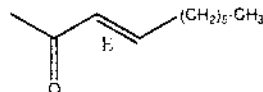
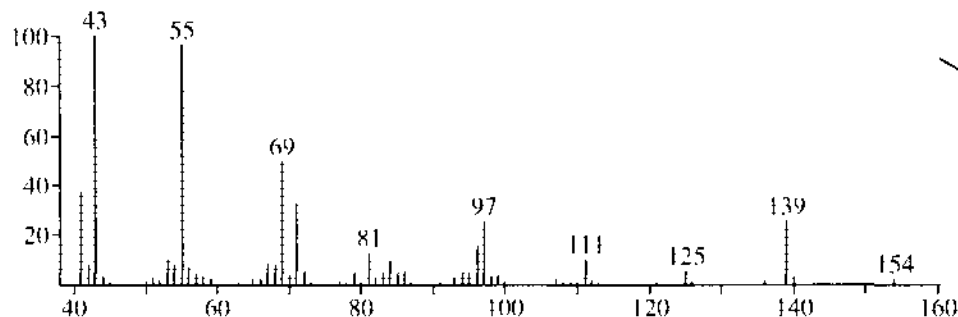
CAS#: 10519-33-2 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1940

CN: 3-decen-2-one (E)-

Synonyms: none

Source: Bedoukian Chem. ex JJ Brophy; 0.88% *Acronychia pedunculata* (China).

p. 63, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong (1993)



RT: 17.32 AI: 1235 KI: 1238 **Neral**

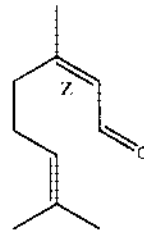
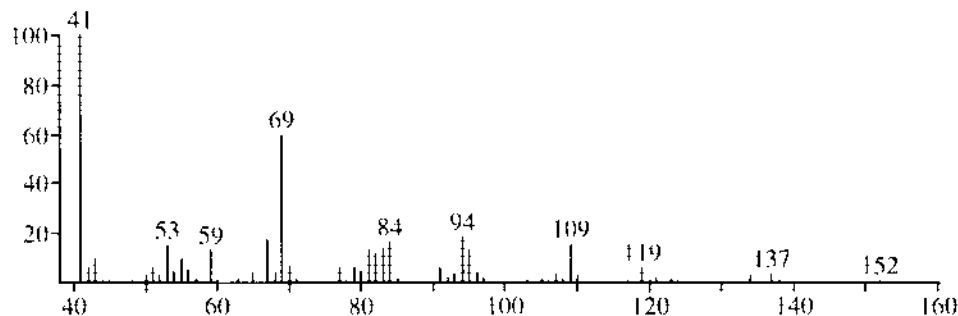
CAS#: 106-26-3 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 991

CN: 2,6-octadienal, 3,7-dimethyl-, (Z)-

Synonyms: citral b; Z-citral

Source: Lemon oil, Lorann Oils; 39.25% *Melissa officinalis*, PAFAI 10:23(1988);

39.15% *Elsholtzia eriostachya*; 37.80% *Litsea cubeba*



RT: 17.32 AI: 1235 KI: 1238 **Ocimenone <(E)->**

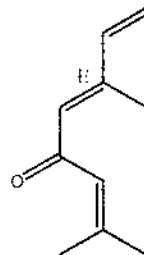
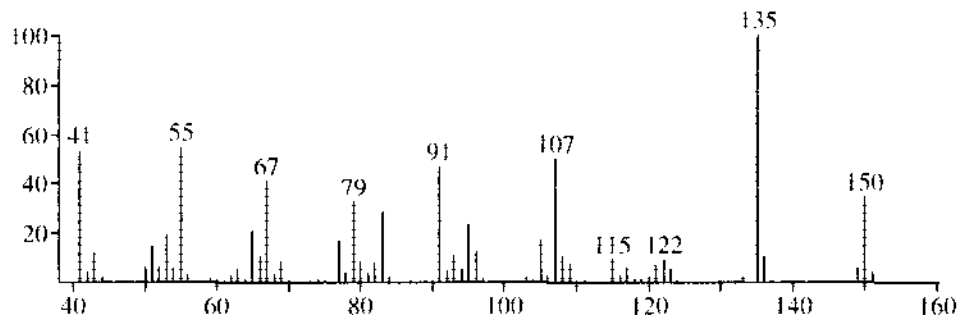
CAS#: 33746-72-4 MF: C₁₀H₁₄O FW: 150 MSD LIB#: 1457

CN: 2,5,7-octatrien-4-one, 2,6-dimethyl-, (E)-

Synonyms: trans-ocimenone

Source: *Tagetes minuta* oil ex E. Hethelyi, Hungary; 40.38% *Tagetes argentina*,

JEOR 5:85(1993); 33.80% *Tagetes tenuifolia*; 26.00% *Tagetes minuta*



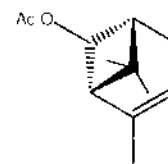
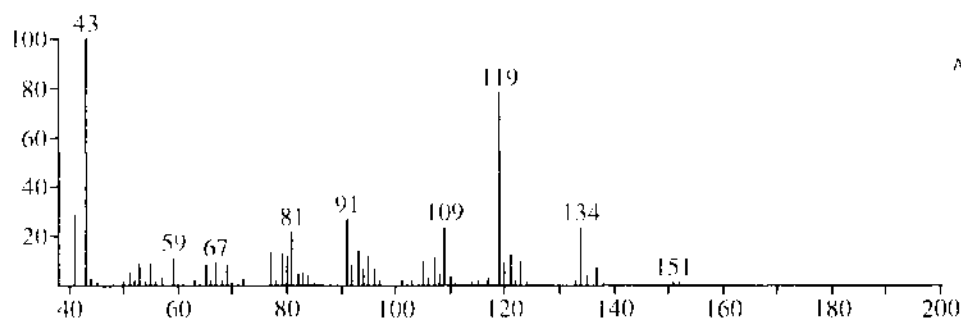
RT: 17.33 AI: 1235 KI: 1238 **Chrysanthenyl acetate <trans->**

CAS#: 50764-55-1 MF: C₁₂H₁₈O₂ FW: 194 MSD LIB#: 1461

CN: bicyclo(3.1.1)hept-2-en-6-ol, 2,7,7-trimethyl-, acetate, (1S-(1 α ,5 α ,6 β))-

Synonyms: none

Source: *Tanacetum parthenium* oil ex H. DePooter



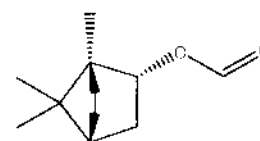
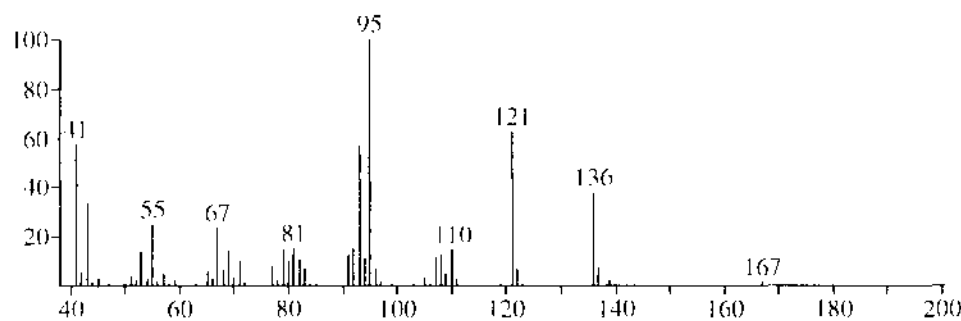
RT: 17.36 AI: 1235 KI: 1239 **Isobornyl formate**

CAS#: 1200-67-5 MF: C₁₁H₁₈O₂ FW: 182 MSD LIB#: 1442

CN: bicyclo(2.2.1)heptan-2-ol, 1,7,7-trimethyl-, formate, exo-

Synonyms: isoborneol formate

Source: *Strobilanthes auriculatus* oil ex P. Weyerstahl; 0.20% *Strobilanthes auriculatus*, p. 567, in: *Flav & Frag.: A World Persp.*, Lawrence, et al. (eds.), Proc. 10th Intl. Cong. of Ess. Oils, Elsevier, Amsterdam (1988)



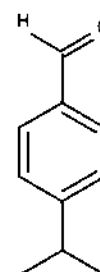
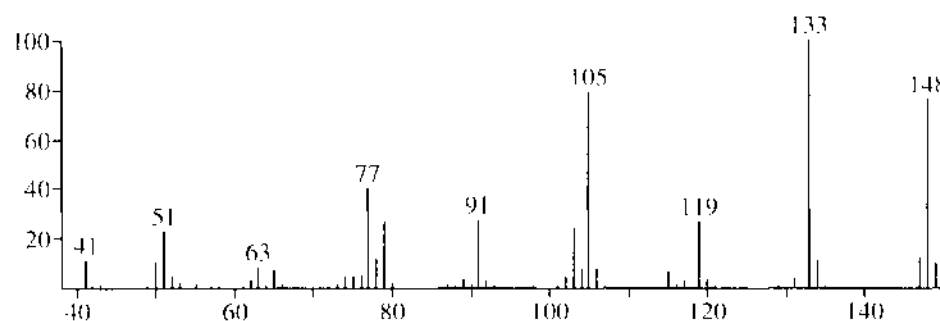
RT: 17.47 AI: 1238 KI: 1241 **Cumin aldehyde**

CAS#: 122-03-2 MF: C₁₀H₁₂O FW: 148 MSD LIB#: 1338

CN: benzaldehyde, 4-(1-methylethyl)-

Synonyms: cuminal; benzaldehyde, p-isopropyl-

Source: *Polylophium involucreatum* ex JJC Scheffer; 43.48% *Cuminum cyminum* (China), p. 139, in: *Aromatic Plants & Essential Constituents*, Peace Book Co., Hong Kong (1993); 13.50% *Artemisia alba*; 4.70 % *Artemisia campestris*



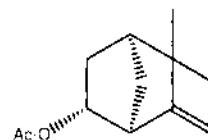
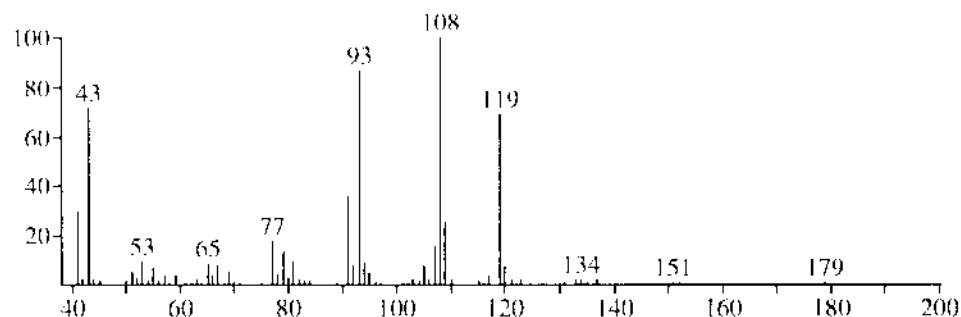
RT: 17.47 AI: 1238 KI: 1241 **Nojigiku acetate**

CAS#: 55627-02-6 MF: C₁₂H₁₈O₂ FW: 194 MSD LIB#: 619

CN: bicyclo(2.2.1)heptan-2-ol, 5,5-dimethyl-6-methylene-, acetate, (1S-exo)-

Synonyms: camphenol acetate <6>

Source: *Diplazenia cachrydifoliae* oil ex K. Harkiss, UK



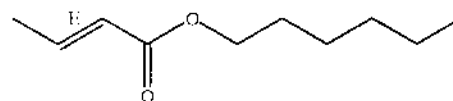
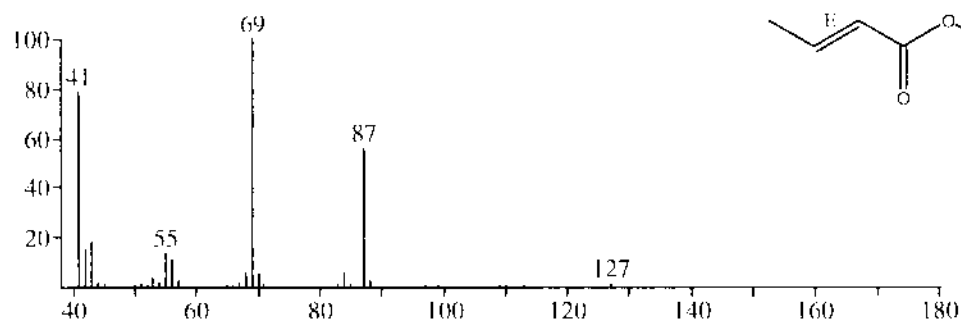
RT: 17.49 AI: 1238 KI: 1242 **Hexyl (2E)-butanoate**

CAS#: 19089-92-0 MF: C₁₀H₁₈O₂ FW: 170 MSD LIB#: 1590

CN: 2-butenic acid, hexyl ester

Synonyms: crotonic acid, hexyl ester, hexyl crotonate

Source: Aldrich Chem.



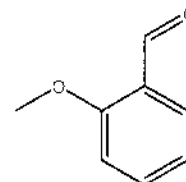
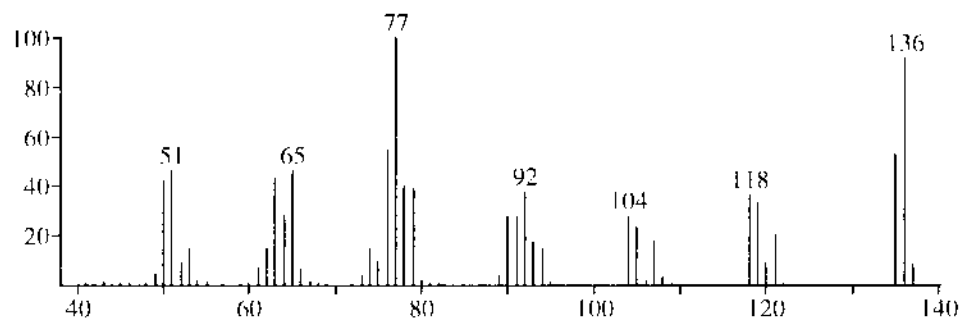
RT: 17.50 AI: 1239 KI: 1242 **Anisaldehyde <0>**

CAS#: 135-02-4 MF: C₈H₈O₂ FW: 136 MSD LIB#: 158

CN: benzaldehyde, 2-methoxy-

Synonyms: o-methoxybenzaldehyde; salicylaldehyde methyl ether

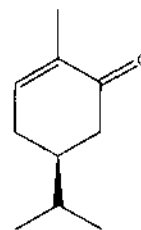
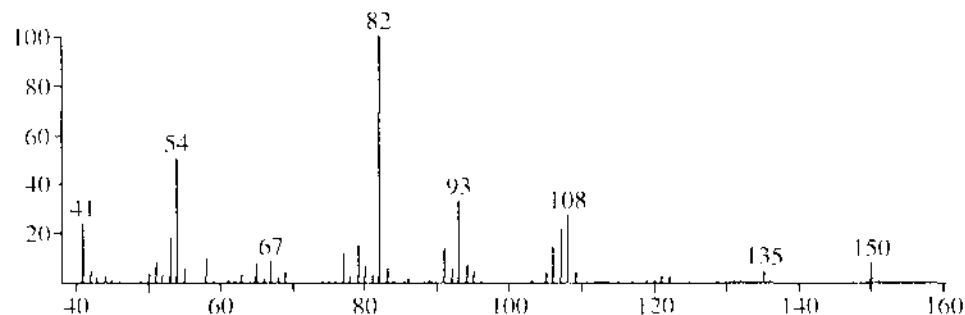
Source: Aldrich Chem.



RT: 17.53 AI: 1239 KI: 1243 **Carvone**CAS#: 99-49-0 MF: C₁₀H₁₄O FW: 150 MSD LIB#: 371

CN: methyl-5-(1-methylethenyl) 2-cyclohexene 1-one<2>

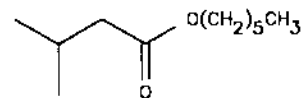
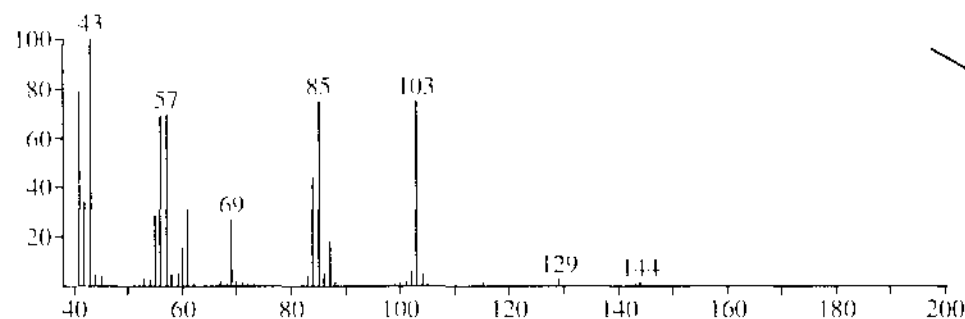
Synonyms: p-mentha-6,8-dien-2-one

Source: Spearmint oil, Lorann Co.: 80.17% *Carum carvi*, Seifen-Öle-Pierre-Wachse112:77(1986): 76.54% *Mentha spicata*; 70.00% *Mentha longifolia*RT: 17.59 AI: 1241 KI: 1244 **Hexyl isovalerate**CAS#: 10032-13-0 MF: C₁₁H₂₂O₂ FW: 186 MSD LIB#: 816

CN: butanoic acid, 3-methyl-, hexyl ester

Synonyms: hexyl 3-methyl butanoate; hexyl isopentanoate

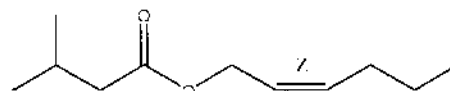
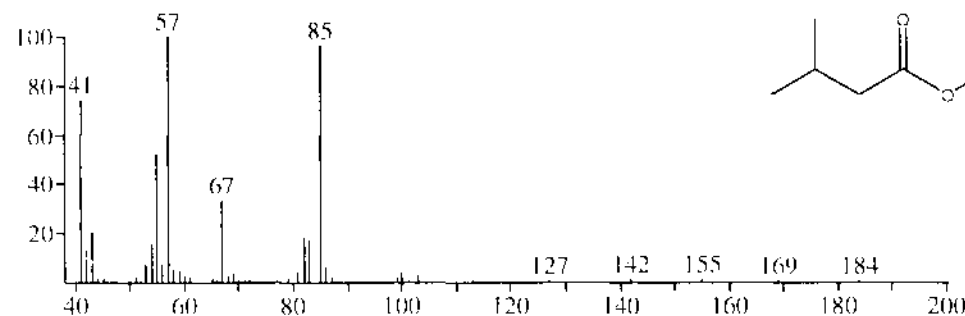
Source: K & K Chem. ex Art Tucker

RT: 17.60 AI: 1241 KI: 1244 **Hexenyl isovalerate <(2Z)->**CAS#: 54675-77-3 MF: C₁₁H₂₀O₂ FW: 184 MSD LIB#: 813

CN: butanoic acid, 3-methyl-, 2-hexenyl ester, (Z)-

Synonyms: cis-3-hexenyl isopentanoate; hexenyl isopentanoate <2Z>

Source: Bedoukian Res. ex Art Tucker



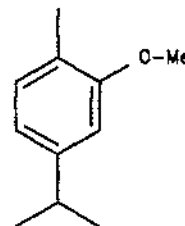
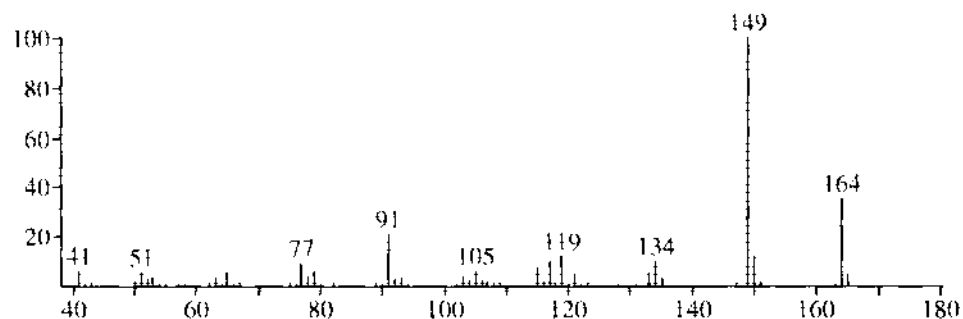
RT: 17.61 AI: 1241 KE: 1244 **Carvacrol, methyl ether**

CAS#: 6379-73-3 MF: C₁₁H₁₆O FW: 164 MSD LIB#: 1503

CN: benzene, 2-methoxy-1-methyl-4-(1-methylethyl)-

Synonyms: anisole, 5-isopropyl-2-methyl-; 2-methoxy-p-cymol

Source: distilled from Schilling Thyme herbs



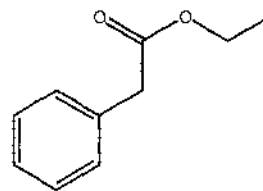
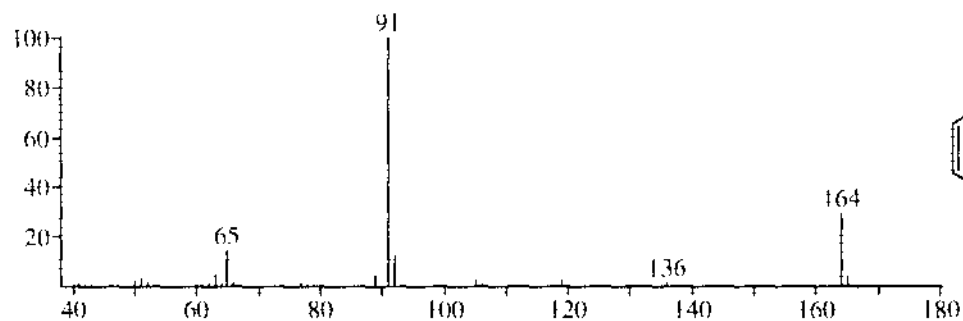
RT: 17.69 AI: 1243 KE: 1246 **Benzene acetic acid, ethyl ester**

CAS#: 101-97-3 MF: C₁₁H₁₂O₂ FW: 164 MSD LIB#: 270

CN: benzene acetic acid, ethyl ester

Synonyms: ethyl phenylacetate; ethyl α-toluate

Source: Aldrich Chem.



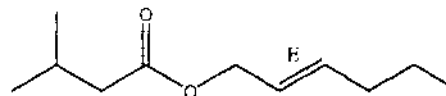
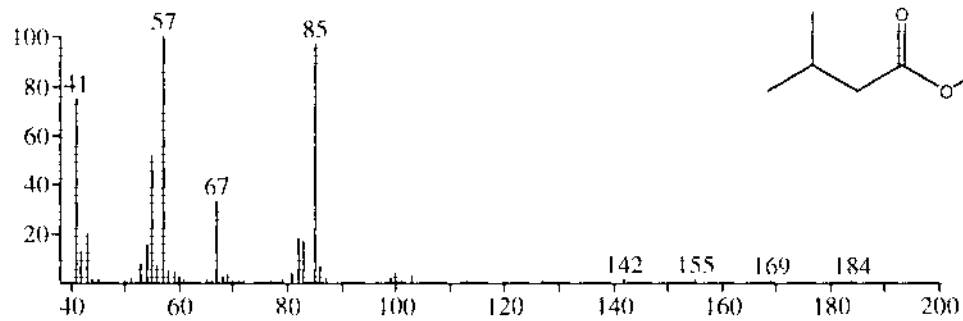
RT: 17.71 AI: 1243 KE: 1247 **Hexenyl isovalerate <(2E)->**

CAS#: 68698-59-9 MF: C₁₁H₂₀O₂ FW: 184 MSD LIB#: 812

CN: butanoic acid, 3-methyl-, 2-hexenyl ester, (E)-

Synonyms: none

Source: Bedoukian Res. ex Art Tucker



RT: 17.72 AE: 1244 KE: 1247 **Carvotanacetone**

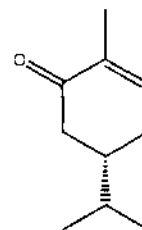
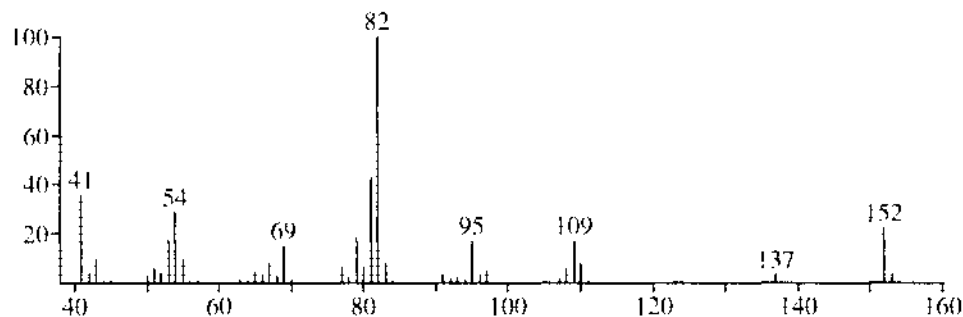
CAS#: 499-71-8 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 377

CN: 2-cyclohexen-1-one, 2-methyl-5-(1-methylethyl)-, (S)-

Synonyms: p-mentha-6-en-2-one, (S)-

Source: ref. cpd. ex E. von Rudloff: 1.20% *Artemisia absinthum*, in: Cont. al studio de los aceites esenciales Espanoles. Aceite esencial de *Artemisia absinthum* L.,

M. Mugica, et al., Madrid(1974); 0.50% *Cistus ladaniferus*; 0.24% *Eucalyptus globulus*



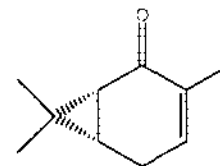
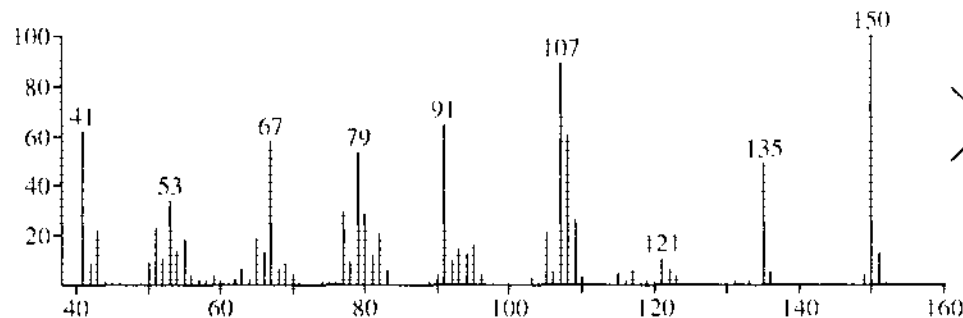
RT: 17.75 AE: 1244 KE: 1248 **Car-3-en-2-one**

CAS#: 53585-45-8 MF: C₁₀H₁₄O FW: 150 MSD LIB#: 1796

CN: bicyclo(4.1.0)hept-3-en-2-one, 3,7,7-trimethyl-, (1R)-

Synonyms: none

Source: ref. cpd. ex Ian Southwell



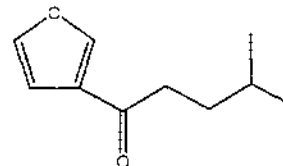
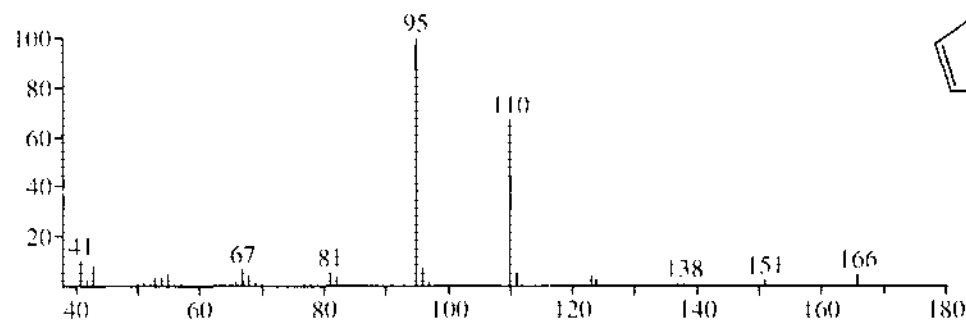
RT: 17.77 AE: 1245 KE: 1248 **Perilla ketone**

CAS#: 553-84-4 MF: C₁₀H₁₄O₂ FW: 166 MSD LIB#: 1266

CN: 1-pentanone, 1-(3-furanyl)-4-methyl-

Synonyms: none

Source: ref. cpd. ex G. Hondo, Japan; 3.50% *Curcuma aromatica*, JEOR 8:633(1996); 0.02% *Pogostemon cablin*; 0.01% *Citrus limon* (leaf)



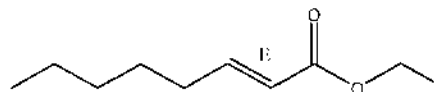
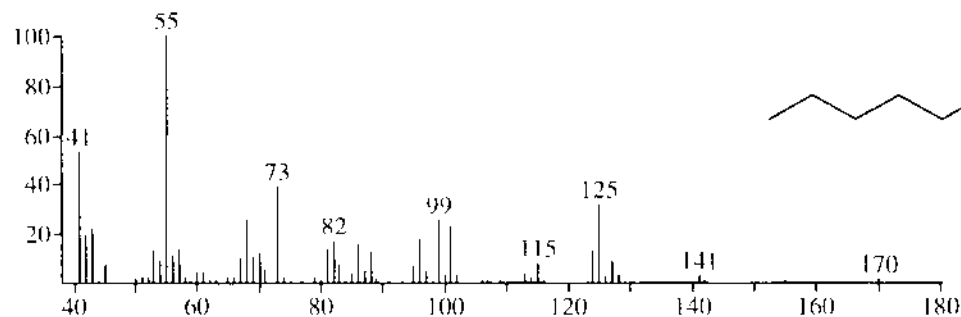
RT: 17.80 AE: 1245 KE: 1249 **Ethyl oct-(2E)-enoate**

CAS#: 2351 90-8 ME: C₁₀ H₁₈ O₂ FW: 170 MSD LIB#: 683

CN: 2-octenoic acid, ethyl ester, (E)-

Synonyms: none

Source: Bedoukian Res. ex Tucker



RT: 17.83 AE: 1246 KE: 1249 **Isoamyl hexanoate**

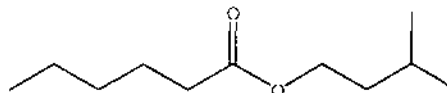
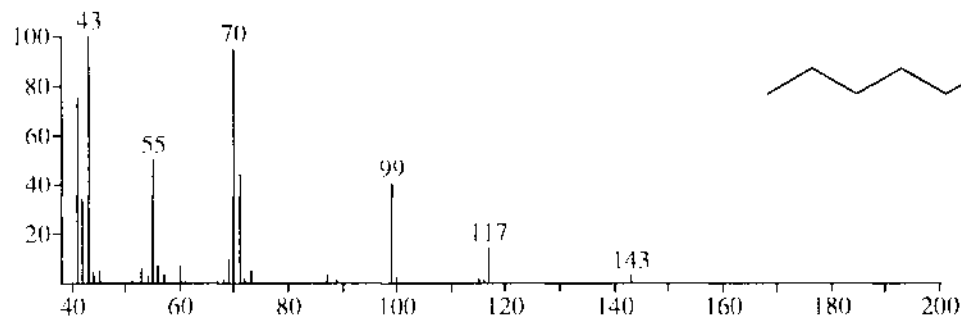
CAS#: 2198 61-0 ME: C₁₁ H₂₂ O₂ FW: 186 MSD LIB#: 1602

CN: hexanoic acid, 3-methylbutyl ester

Synonyms: isoamyl caproate, isopentyl hexanoate

Source: Aldrich Chem.: 0.87% *Pistacia lentiscus* (leaf), JEOR 4:663(1992);

0.47% *Cymbopogon martini*; 0.41% *Pistacia lentiscus* (fruit)



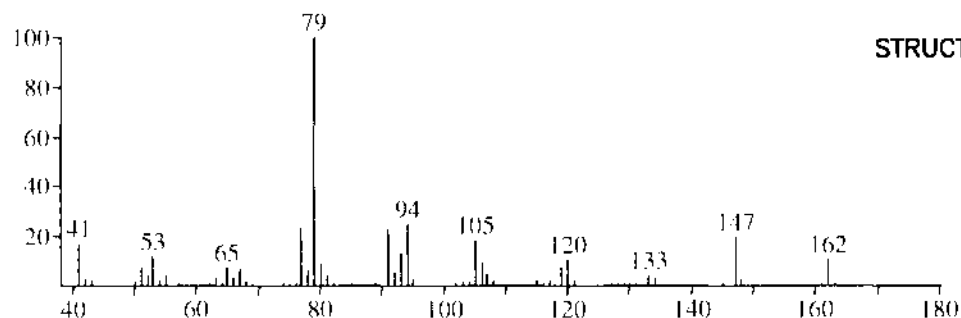
RT: 17.83 AE: 1246 KE: 1249 **Isogeijerene C**

CAS#: 106494-41-1 ME: C₁₂ H₁₈ FW: 162 MSD LIB#: 150

CN: isogeijerene C

Synonyms: none

Source: *Amryis diatrya* leaf oil ex Tom Zanoni



STRUCTURE UNKNOWN

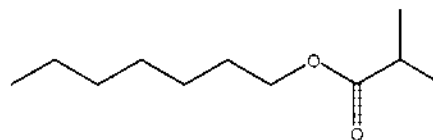
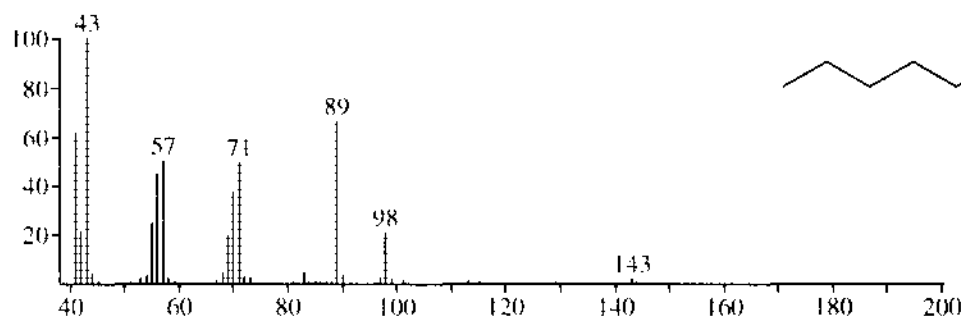
RT: 17.84 AI: 1246 KI: 1250 **Heptyl isobutanoate**

CAS#: 2349-13-5 MF: C₁₁H₂₂O₂ FW: 186 MSD LIB#: 795

CN: propanoic acid, 2-methyl-, heptyl ester

Synonyms: heptyl isobutyrate

Source: ref. cpd. ex Art Tucker



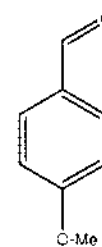
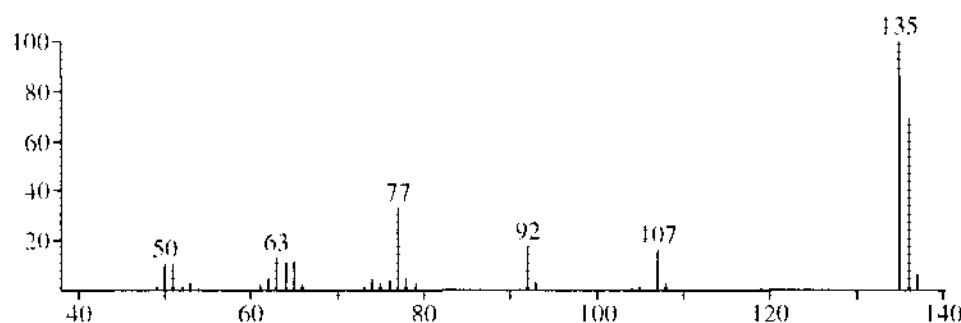
RT: 17.85 AI: 1247 KI: 1250 **Anis aldehyde <p>**

CAS#: 123-11-5 MF: C₈H₈O₂ FW: 136 MSD LIB#: 166

CN: benzaldehyde, 4-methoxy-

Synonyms: anisic aldehyde; crategine; aubepine; p-formylanisole; obepin

Source: Aldrich Chem.



RT: 17.85 AI: 1247 KI: 1250 **Chavicol**

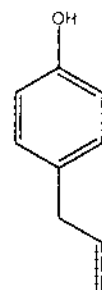
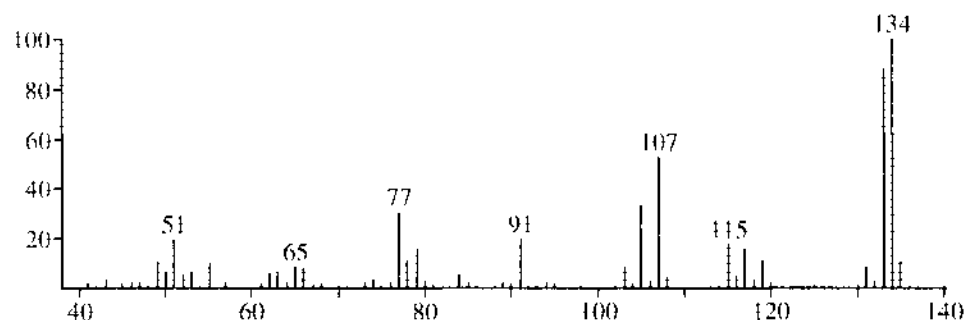
CAS#: 501-92-8 MF: C₉H₁₀O FW: 134 MSD LIB#: 1295

CN: phenol, 4-(2-propenyl)-

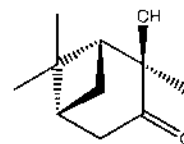
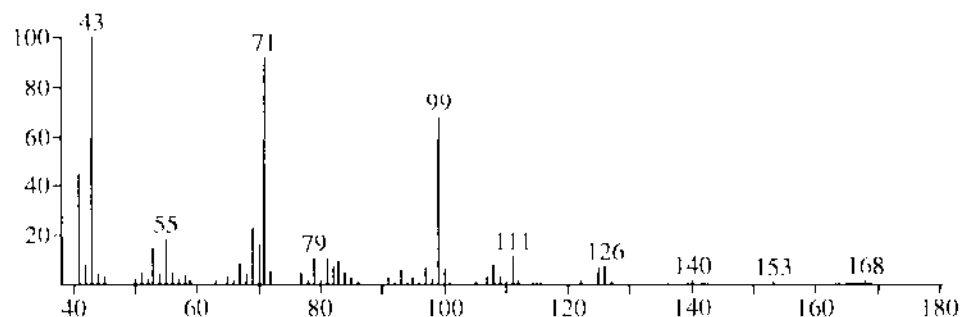
Synonyms: 4-allyl phenol; p-allyl phenol

Source: *Pimenta* oil, Firmenich ex AF Thomas; 21.60% *Pimenta racemosa*.

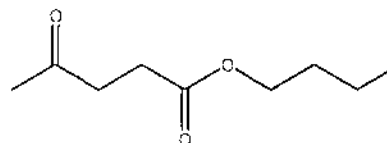
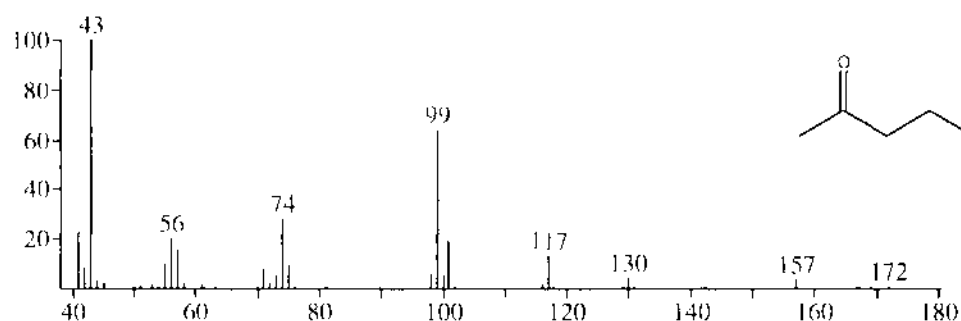
Food Chem. 2:19(1977); 6.00% *Ocimum gratissimum*; 3.27% *Alpinia conchigera*



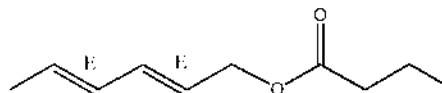
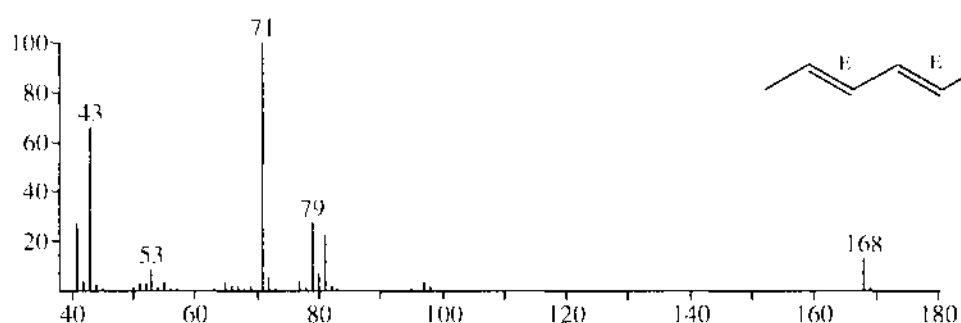
RT: 17.85 AI: 1247 KI: 1250 **Pinocamphone <trans-2-hydroxy->**
 CAS#: 84236-04-4 MF: C₁₀H₁₆O₂ FW: 168 MSD LIB#: 1307
 CN: bicyclo(3.1.1)heptan-3-one, 2-hydroxy-2,6,6-trimethyl (1 α ,2 α ,5 α)-
 Synonyms: none
 Source: ref. cpd. ex P. Weyerstahl



RT: 17.86 AI: 1247 KI: 1250 **Butyl levulinate**
 CAS#: 2052-15-5 MF: C₉H₁₆O₃ FW: 172 MSD LIB#: 2186
 CN: pentanoic acid, 4-oxo-, butyl ester
 Synonyms: butyl laevulinate; butyl 4-oxovalerate
 Source: Bedoukian Res.



RT: 17.91 AI: 1248 KI: 1251 **Hexadienol butanoate <(2E,4E)->**
 CAS#: 000-00-0 MF: C₁₀H₁₆O₂ FW: 168 MSD LIB#: 2102
 CN: 2,4-hexadien-1-ol, butyrate, (2E,4E)-
 Synonyms: none
 Source: Bedoukian Res.



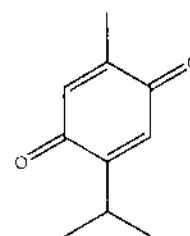
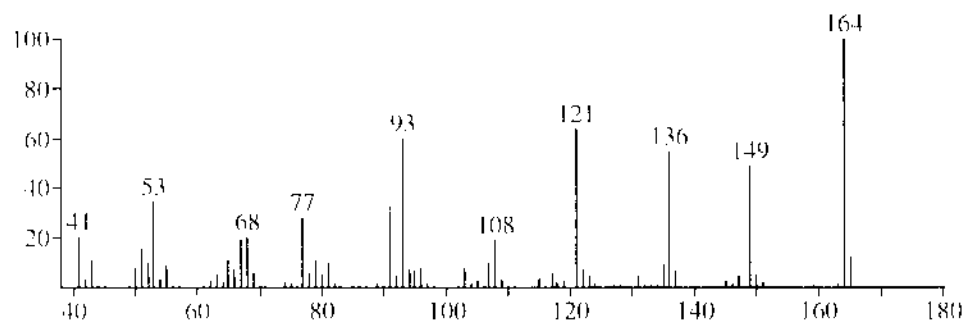
RT: 17.93 AI: 1248 KI: 1252 **Thymoquinone**

CAS#: 490-91-5 MF: C₁₀H₁₂O₂ FW: 164 MSD LIB#: 1158

CN: 2,5-cyclohexadiene-1,4-dione, 2-methyl-5-(1-methylethyl)-

Synonyms: p-mentha-3,6-diene-2,5-dione; p-cymen-2,5-dione

Source: *Nigella sativa* seed oil ex EA Aboutable; 24.50% *Nigella sativa*, p. 49, in: Proc. in Ess. Oil Research, E.-J. Brunke, Ed, Gruyter Publ., Berlin (1986); 0.17% *Satureja montana*; 0.01% *Thymus vulgaris*



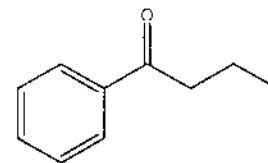
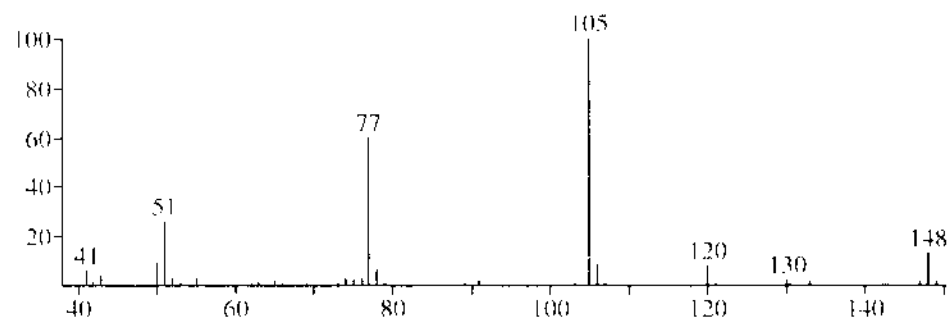
RT: 17.95 AI: 1249 KI: 1252 **Butyrophenone**

CAS#: 495-40-9 MF: C₁₀H₁₂O FW: 148 MSD LIB#: 337

CN: 1-butanone, 1-phenyl-

Synonyms: phenyl propyl ketone; propyl phenyl ketone

Source: Aldrich Chem.



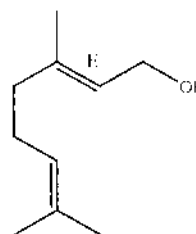
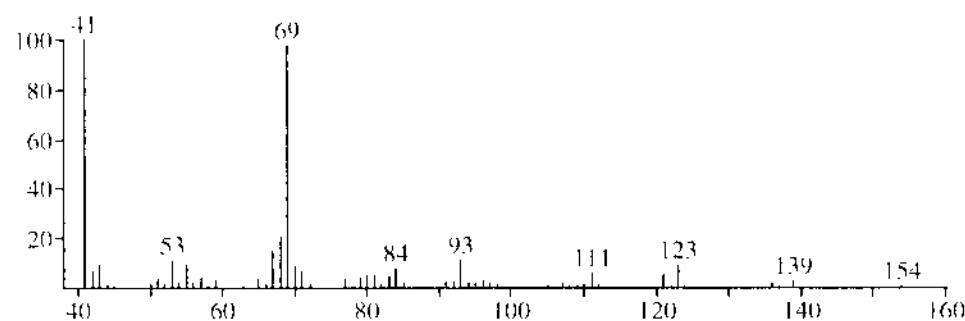
RT: 17.95 AI: 1249 KI: 1252 **Geraniol**

CAS#: 106-24-1 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 728

CN: dimethyl-2,6-octadien-1-ol <3,7->

Synonyms: lemonol; geraniol

Source: Rose oil ex Firmenich ex AF Thomas; 93.15% *Monarda fistulosa*, p. 68, in: Ess. Oils, Allured Publ., Wheaton (1981); 88.82% *Ocimum gratissimum* (leaf); 84.01% *Cymbopogon martini*



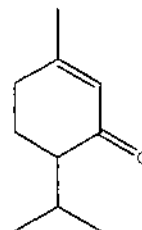
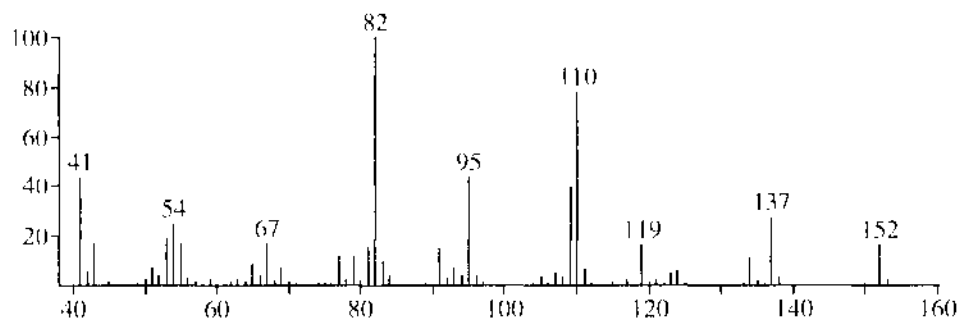
RT: 17.95 AI: 1249 KI: 1252 **Piperitone**

CAS#: 89-81-6 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 905

CN: 2-cyclohexen-1-one, 3-methyl-6-(1-methylethyl)-

Synonyms: 3-carvomenthenone; p-menth-1-en-3-one

Source: *Juniperus flaccida* v. *poblana* leaf oil, RP Adams #2578; 73.42% *Cymbopogon jwarancusa*, p. 317, in: *Flav. & Frag.: A World Persp.*, Lawrence, et al. (eds.), Proc. 10th Intl. Cong. of Ess. Oils, Elsevier, Amsterdam (1988); 70.00% *Mentha pulegium*; 66.10% *Mentha rotundifolia*



RT: 17.96 AI: 1249 KI: 1252 **Anethole <(Z)->**

CAS#: 25679-28-1 MF: C₁₀H₁₂O FW: 148 MSD LIB#: 168

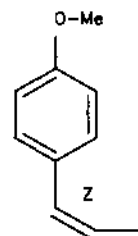
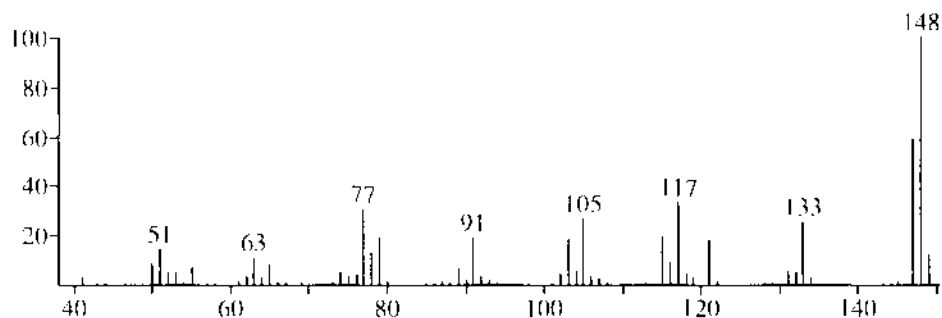
CN: benzene, 1-methoxy-4-(1-propenyl)-, (Z)-

Synonyms: cis-p-anethole; cis-p-methoxy-β-methylstyrene

Source: *Foeniculum vulgare* oil (sweet anis oil) ex RP Adams #5427;

3.47% *Foeniculum vulgare* (sweet), IFL 8:115(1993); 2.29% *Pimpinella anisum*;

1.75% *Foeniculum vulgare* (bitter) seedling



RT: 17.96 AI: 1249 KI: 1252 **Methyl pentyl angelate <3->**

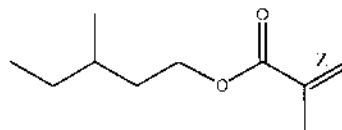
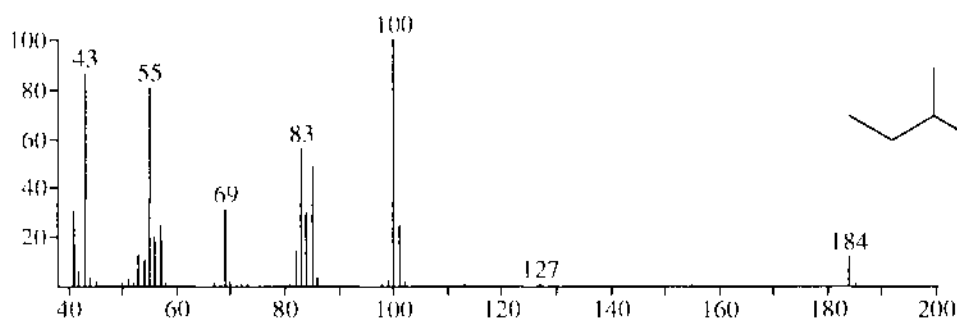
CAS#: 53082-58-9 MF: C₁₁H₂₀O₂ FW: 184 MSD LIB#: 1988

CN: 2-butenic acid, 2-methyl-, 3-methylpentyl ester (2Z)-

Synonyms: 3-methylamyl angelate

Source: Bedoukian Res. ex JJ Brophy; 20.33% *Anthemis nobilis* (Italy), Atlas of Essential Oils, S.R. Srinivas Press, NY (1986); 18.32% *Anthemis nobilis* (Egypt);

16.22% *Anthemis nobilis* (England)



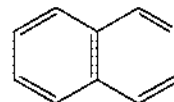
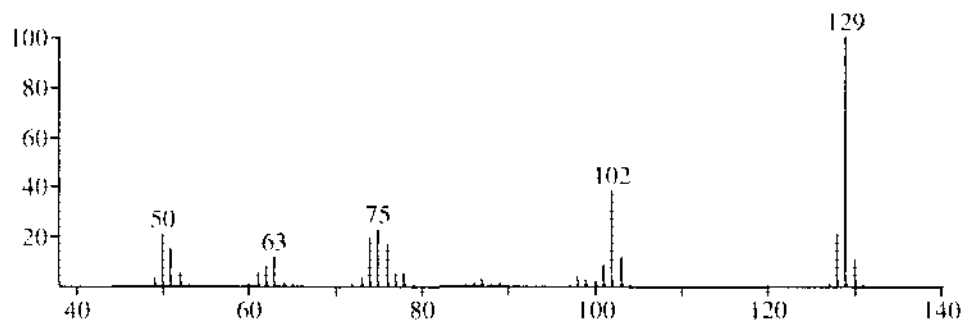
RT: 17.97 AI: 1249 KI: 1253 **Isoquinoline**

CAS#: 119-65-3 MF: C₉H₇N FW: 129 MSD LIB#: 1630

CN: isoquinoline

Synonyms: benzopyridine, leucoline, isochinolin, 2-azanaphthalene

Source: Aldrich Chem.; 0.03% *Spartium juncum* (absolute), p. 325.
in: Rivista Ital. EPPOS(1992)



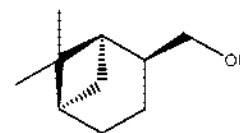
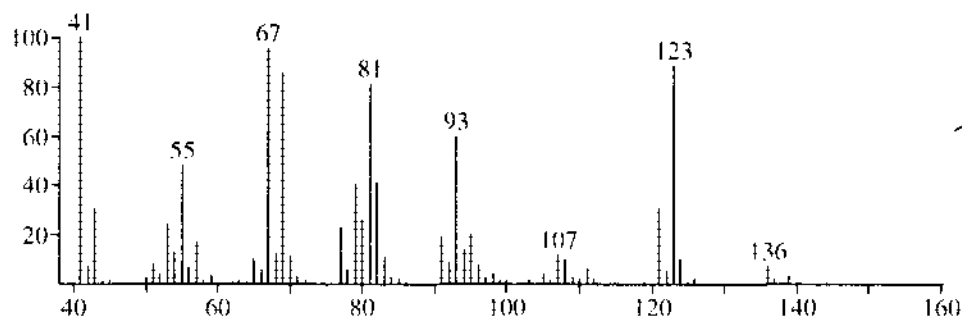
RT: 18.00 AI: 1250 KI: 1253 **Myrtanol <cis->**

CAS#: 15358-92-6 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1122

CN: bicyclo[3.1.1]heptane-2-methanol, 6,6-dimethyl-, (1 α ,2 β ,5 α)-

Synonyms: none

Source: Aldrich Chem. ex Tom Phillips, FSU; 1.26% *Geum montanum* (root),
JEOR 7:117(1995); 1.19% *Rosmarinus officinalis*



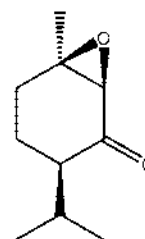
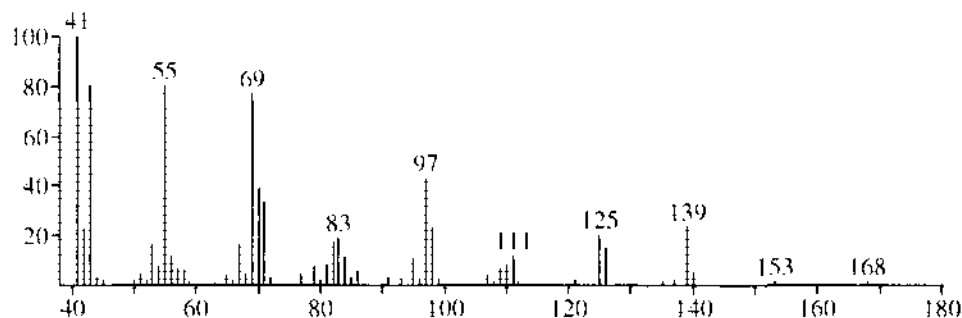
RT: 18.00 AI: 1250 KI: 1254 **Piperitone epoxide <cis-> (epoxide vs. IPP)**

CAS#: 4713-37-5 MF: C₁₀H₁₆O₂ FW: 168 MSD LIB#: 1329

CN: 7-oxabicyclo[4.1.0]heptan-2-one, 6-methyl-3-(1-methylethyl)-, (1R,3R,6R)-

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl



RT: 18.02 AI: 1250 KI: 1254 **Octalactone <γ>**

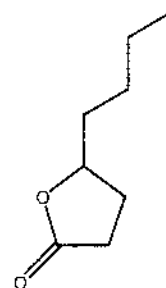
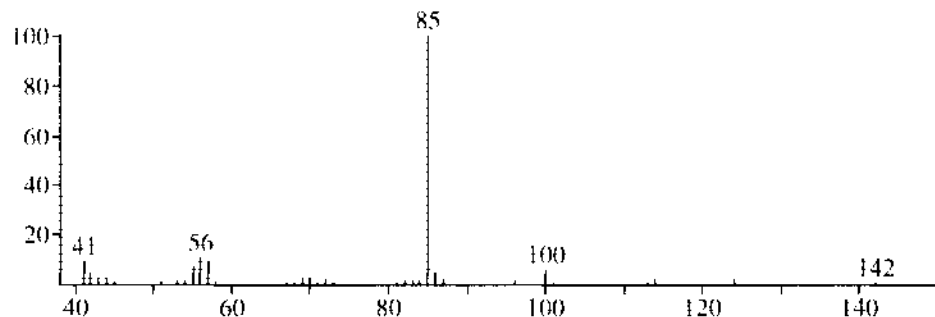
CAS#: 104-50-7 MF: C₈H₁₄O₂ FW: 142 MSD LIB#: 1944

CN: 2(3H)-furanone, 5-butylidihydro-

Synonyms: octanolide-1,4-; butylbutyrolactone(γ-)

Source: Bedoukian Res. ex JJ Brophy; 0.15% *Rhus coriaria*, Dragoco Bericht 81-95(1993);

0.06% *Zizyphus jujuba*; 0.04% *Ribes nigrum*



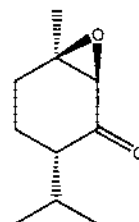
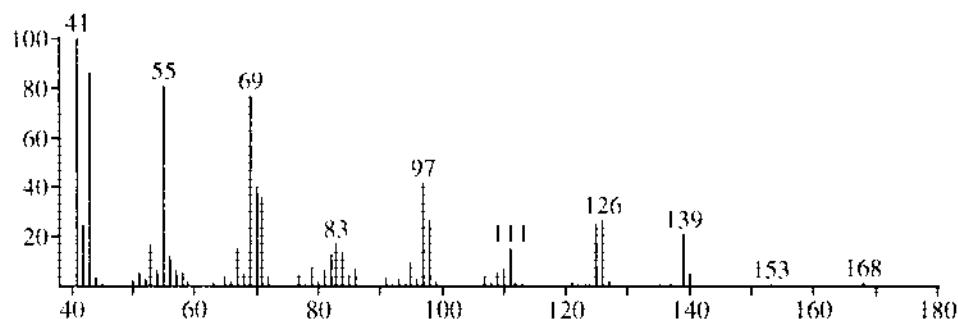
RT: 18.10 AI: 1252 KI: 1256 **Piperitone epoxide <trans> (epoxide vs. IPP)**

CAS#: 57130-28-6 MF: C₁₀H₁₆O₂ FW: 168 MSD LIB#: 1330

CN: 7-oxabicyclo(4.1.0)heptan-2-one, 6-methyl-3-(1-methylethyl)-, (1R,3S,6R)-

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl



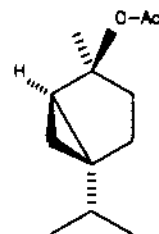
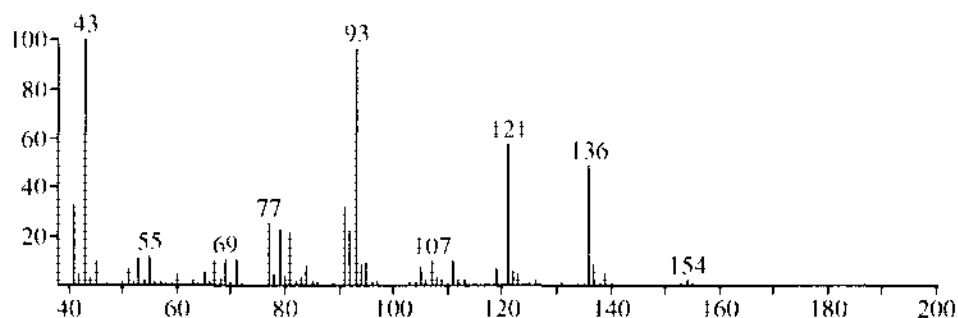
RT: 18.12 AI: 1253 KI: 1256 **Sabinene hydrate acetate <trans> (Ac vs. IPP)**

CAS#: 77318-47-9 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 1058

CN: bicyclo(3.1.0)hexan-2-ol, 2-methyl-5-(1-methylethyl)-, acetate.(1α,2β,5α)-

Synonyms: cis-sabinene hydrate acetate (cis for Me vs. IPP, old name); trans-4-thujanol acetate

Source: distillation of sweet marjoram leaves, RP Adams #5922



RT: 18.16 AI: 1254 KI: 1257 **Linalool acetate**

CAS#: 115-95-7 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 1505

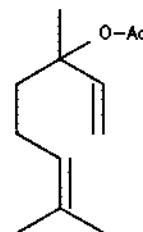
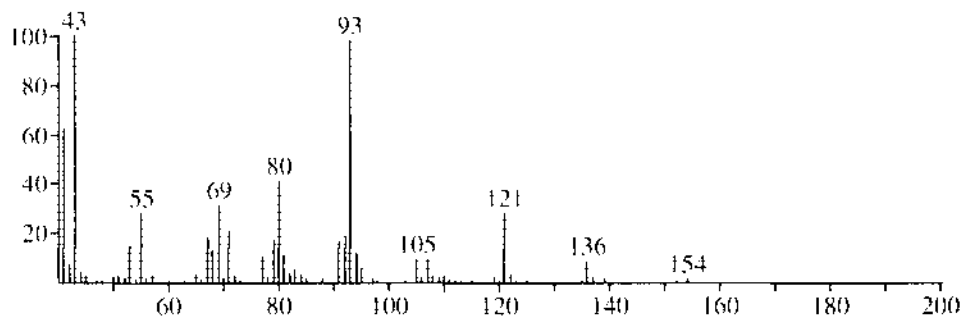
CN: 1,6-octadien-3-ol, 3,7-dimethyl-, acetate

Synonyms: linalool acetate; bergamot

Source: Thyme oil distilled from comm. leaves (Schilling), RP Adams #5426;

71.50% *Skimmia laureola*, Glossary of Indian Medicinal Plants, CSIR Publ., New Delhi(1956);

69.93% *Salvia sclarea*; 56.80% *Citrus aurantium*



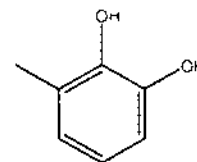
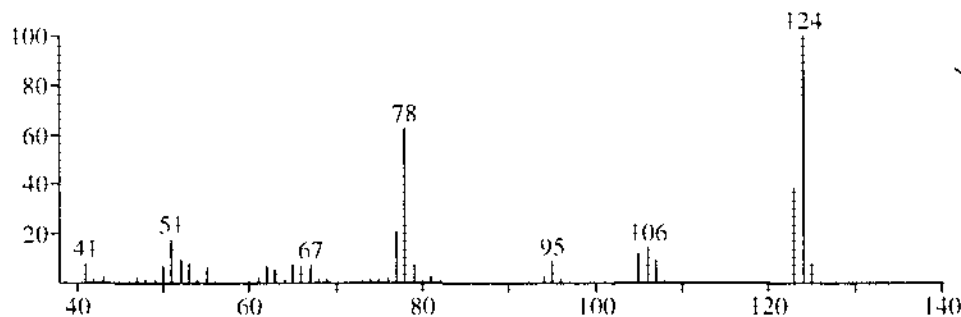
RT: 18.20 AI: 1254 KI: 1258 **Catechol <3-methyl->**

CAS#: 488-17-5 MF: C₇H₈O₂ FW: 124 MSD LIB#: 2010

CN: 1,2-benzenediol, 3-methyl-

Synonyms: pyrocatechol, 3-methyl-; 2,3-dihydroxytoluene

Source: Tokyo Kasai ex JJ Brophy



RT: 18.20 AI: 1254 KI: 1258 **Phenyl ethyl acetate <2->**

CAS#: 103-45-7 MF: C₁₀H₁₂O₂ FW: 164 MSD LIB#: 1274

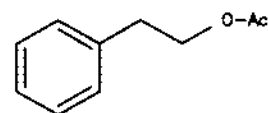
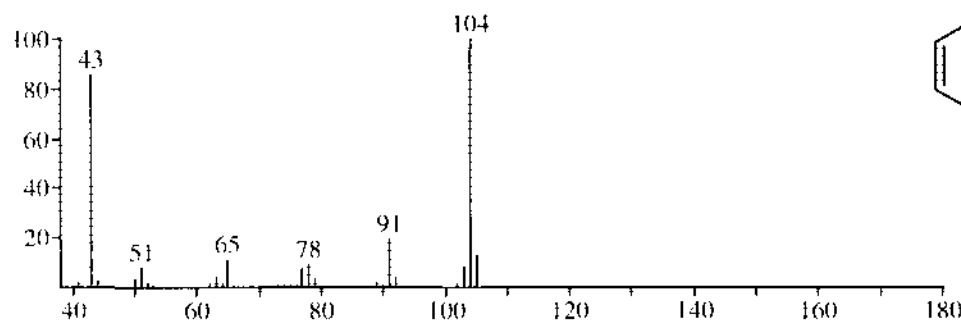
CN: acetic acid, 2-phenylether ester

Synonyms: benzylcarbinyl acetate

Source: K & K Chem, ex Ari Tucker; 21.00% *Coronilla emerus*,

p. 57, in: Prog. in Ess. Oil Research, E.J.-Brunke, Ed, Gruyter Publ., Berlin(1986);

7.16% *Mimusops elengi*; 3.38% *Narcissus tazetta*



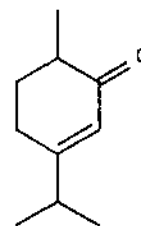
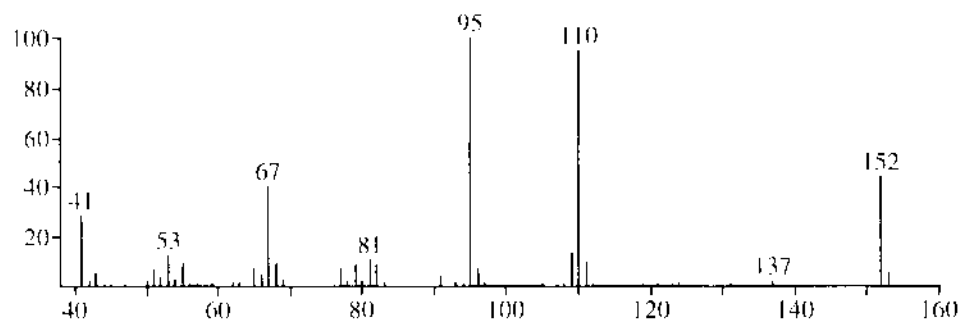
RT: 18.21 AI: 1255 KI: 1258 **Carvenone**

CAS#: 499-74-1 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 367

CN: 2-cyclohexen-1-one, 6-methyl-3-(1-methylethyl)-

Synonyms: p-menth-3-en-2-one

Source: Roth Chem. ex Keith Harkiss; 0.02% *Croton eluteria*, FFJ 6:193(1991)



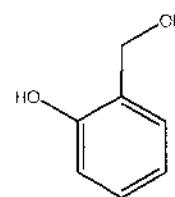
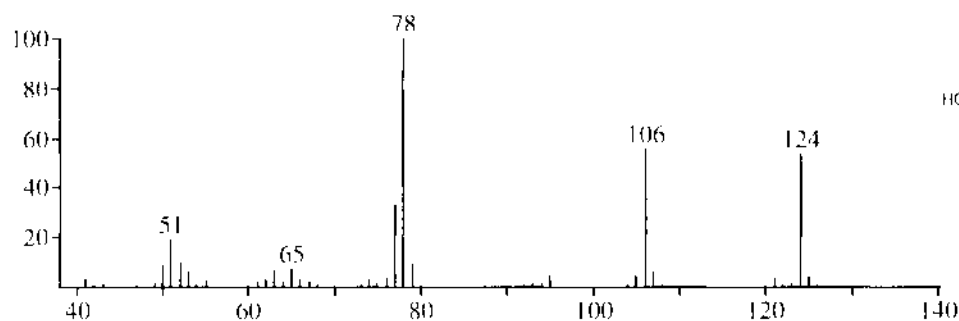
RT: 18.22 AI: 1255 KI: 1258 **Benzenemethanol <2-hydroxy->**

CAS#: 90-01-7 MF: C₇H₈O₂ FW: 124 MSD LIB#: 2006

CN: benzenemethanol, 2-hydroxy-

Synonyms: salicyl alcohol; diathesin; saligenin; saligenol; 2-methylphenol

Source: Aldrich Chem. ex JJ Brophy



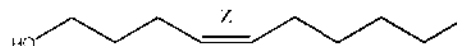
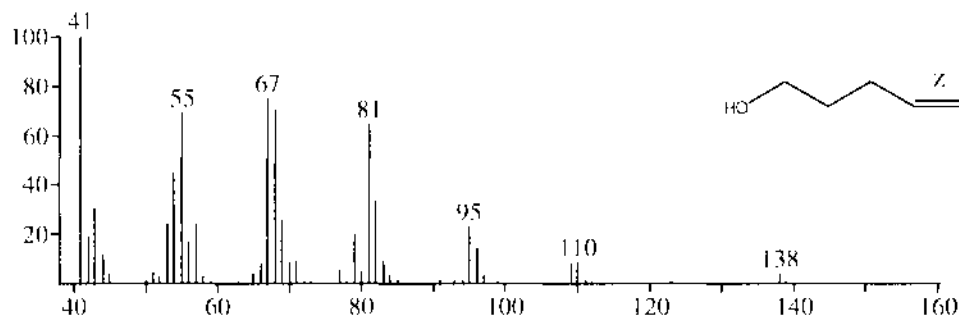
RT: 18.24 AI: 1255 KI: 1259 **Decen-1-ol <(4Z)->**

CAS#: 57074-37-0 MF: C₁₀H₂₀O FW: 156 MSD LIB#: 577

CN: 4-decen-1-ol, (Z)-

Synonyms: cis-4-decenol

Source: Bedoukian Res. ex Art Tucker



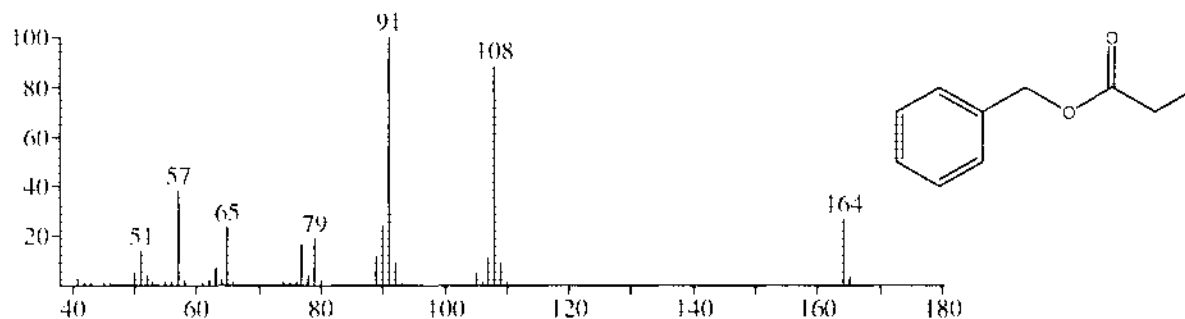
RT: 18.29 AI: 1257 KI: 1260 **Benzyl propanoate**

CAS#: 122-63-4 ME: C₁₀H₁₂O₂ FW: 164 MSD LIB#: 292

CN: propanoic acid, phenylmethyl ester

Synonyms: benzyl propionate

Source: ICN Chems, ex Art Tucker: 0.01% *Tanacetum parthenium*, FIJ 11:367(1996)



RT: 18.33 AI: 1257 KI: 1261 **Methyl citronellate**

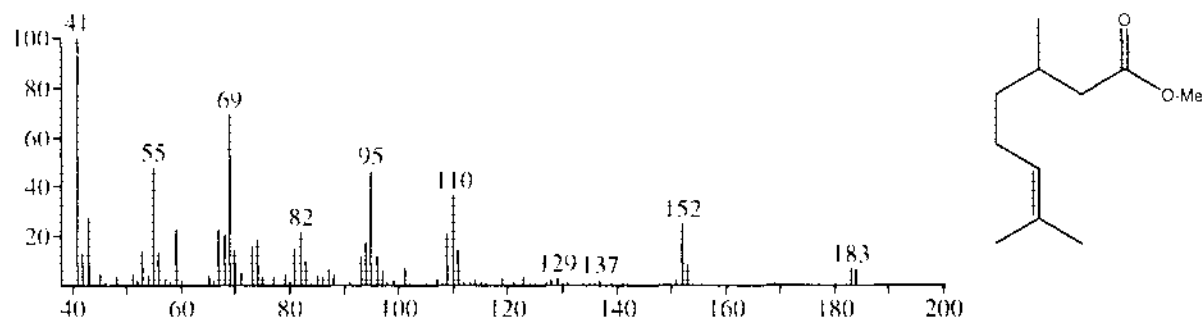
CAS#: 2270-60-2 ME: C₁₁H₂₀O₂ FW: 184 MSD LIB#: 908

CN: 6-octenoic acid, 3,7-dimethyl-, methyl ester

Synonyms: none

Source: *Juniperus lucayana* leaf oil, RP Adams #2863; 4.90% *Melissa officinalis*,

Deut. Apoth. Ztg. 129:155(1989); 2.00% *Baccharis dracunculifolia*; 1.60% *Juniperus sabina*



RT: 18.34 AI: 1258 KI: 1263 **Myrtanol <trans->**

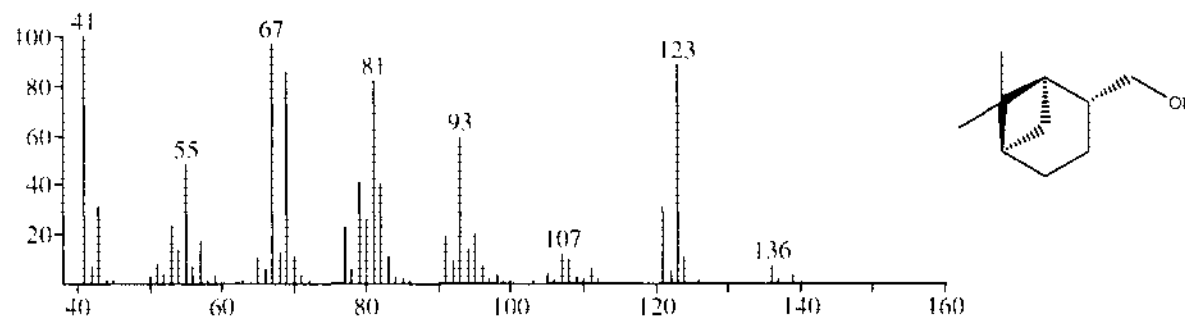
CAS#: 15358-91-5 ME: C₁₀H₁₈O FW: 154 MSD LIB#: 1123

CN: bicyclo(3.1.1)heptane-2-methanol, 6,6-dimethyl-, (1 α ,2 α ,5 α)

Synonyms: none

Source: Aldrich Chem. ex Tom Phillips, FSU; 3.63% *Geum montanum* (root),

JEOR 7:117(1995); 2.32% *Rosmarinus officinale*; 0.20% *Pteronia incana*



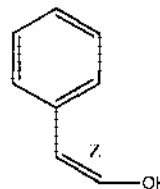
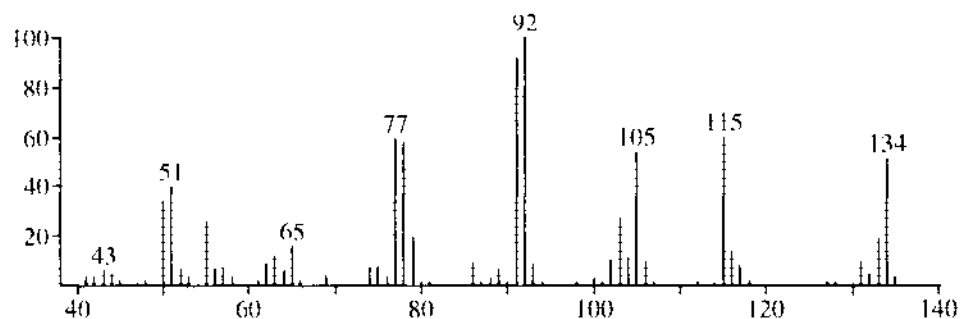
RT: 18.38 AE: 1259 KI: 1262 **Cinnamyl alcohol <(Z)->**

CAS#: 4510-34-3 MF: C₉H₁₀O FW: 134 MSD LIB#: 450

CN: 3-propen-1-ol, 3-phenyl-, (Z)-

Synonyms: cis-cinnamyl alcohol

Source: Aldrich Chem. ex H. Hills



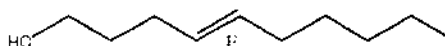
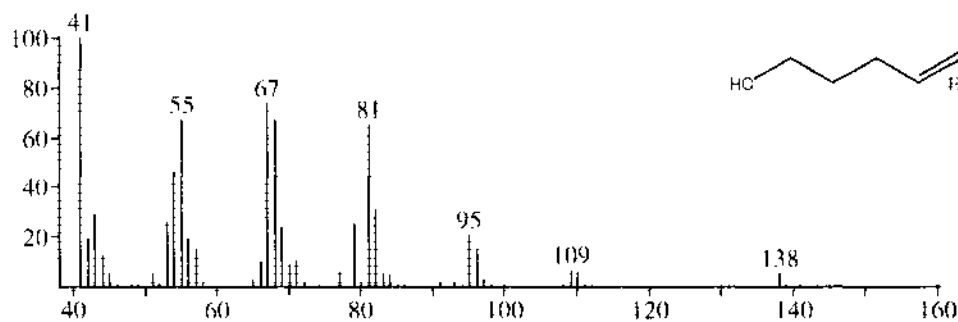
RT: 18.38 AE: 1259 KI: 1262 **Decen-1-ol <(4E)->**

CAS#: 10339-62-5 MF: C₁₀H₂₀O FW: 156 MSD LIB#: 578

CN: 4-decen-1-ol, (E)-

Synonyms: trans-4-decenol

Source: Bedoukian Res. ex Art Tucker



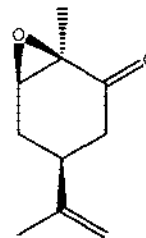
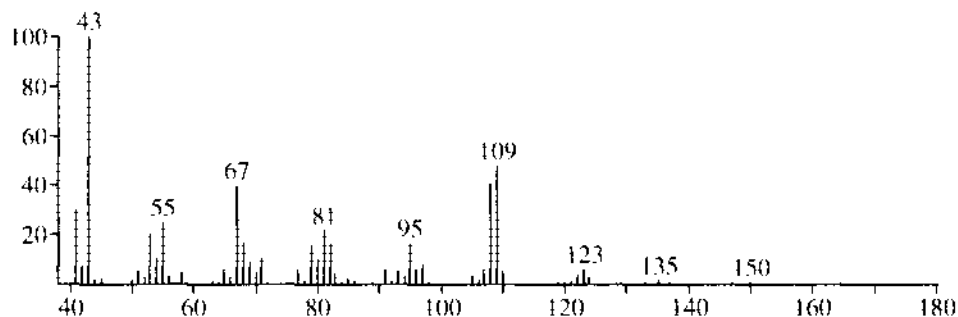
RT: 18.42 AE: 1259 KI: 1263 **Carvone oxide <cis->**

CAS#: 18383-49-8 MF: C₁₀H₁₄O₂ FW: 166 MSD LIB#: 376

CN: 7-oxabicyclo(4.1.0)heptan-2-one, 1-methyl-4-(1-methylethenyl)-, (1S-(1α,4β,6α))-

Synonyms: p-mentha-8-en-2-one, 1,6-epoxy-, (1S,4R,6S)-

Source: Carvone oxide, PPF #010959, ex H. Hills; 0.10% *Mentha spicata*, Perf. Flav. 5:6(1980)



RT: 18.44 AI: 1260 KI: 1263 **Decenal <(2E)->**

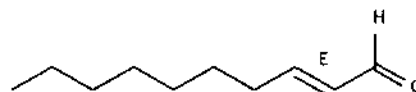
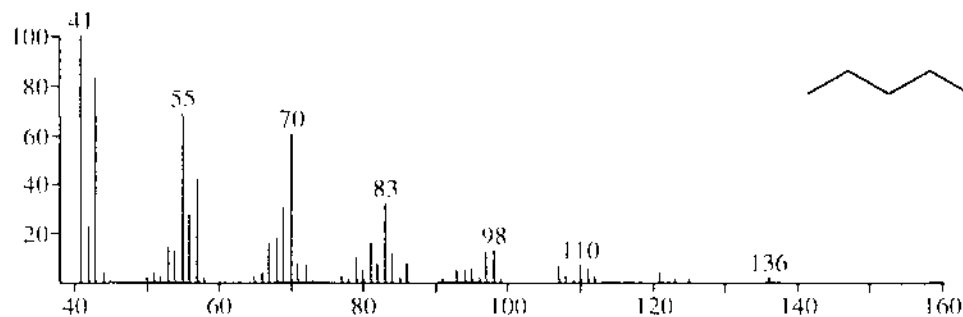
CAS#: 3913-81-3 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 472

CN: 2-decenal, (E)-

Synonyms: trans-2-decenal

Source: Coriander oil ex Guy Collin; 46.10% *Coriandrum sativum* (leaf), Agric. Food Chem.

38:2054(1990); 8.25% *Carum carvi*; 8.00% *Rhus coriaria*



RT: 18.51 AI: 1261 KI: 1265 **Chrysanthenyl acetate <cis->**

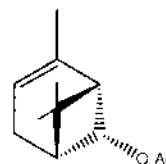
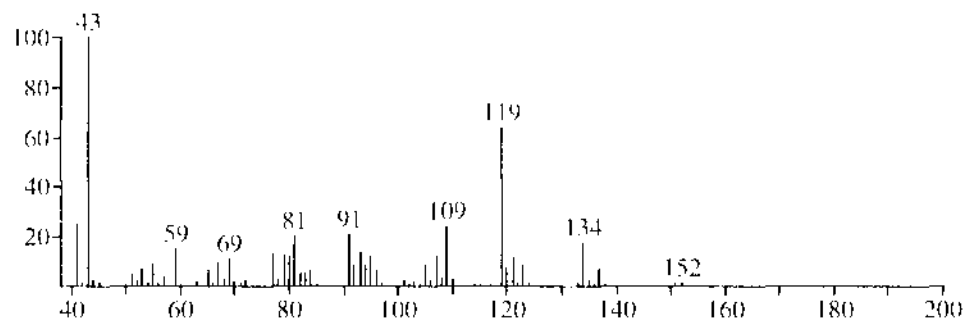
CAS#: 67999-48-8 MF: C₁₂H₁₈O₂ FW: 194 MSD LIB#: 235

CN: bicyclo(3.1.1)hept-2-en-6-ol, 2,7,7-trimethyl-, acetate, (1α,5α,6α)-

Synonyms: none

Source: *Artemisia vestita* ex P. Weyerstahl; 56.60% *Ducrosia anethifolia*, Pakistani J. Sci.

Ind. Res. 22:252(1979); 1.19% *Artemisia vestita*; 0.70% *Angelica archangelica* (root)



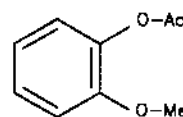
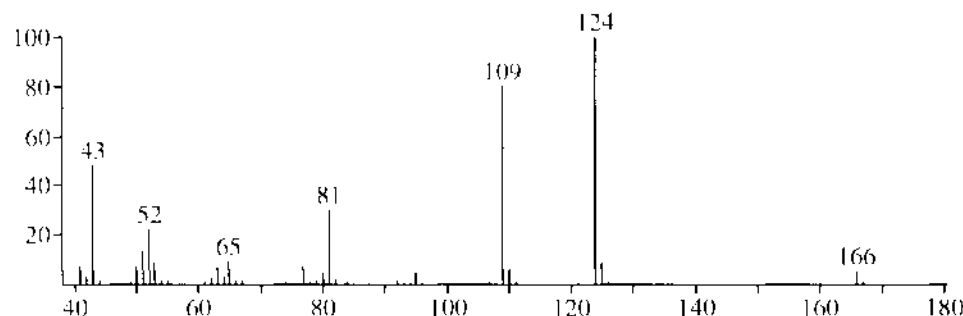
RT: 18.51 AI: 1261 KI: 1265 **Guaiacol acetate <o->**

CAS#: 613-70-7 MF: C₉H₁₀O₃ FW: 166 MSD LIB#: 756

CN: phenol, 2-methoxy-, acetate

Synonyms: eucol, o-acetoxyanisole; 2-methoxy phenyl acetate

Source: acetylation of o-guaiacol(6251)



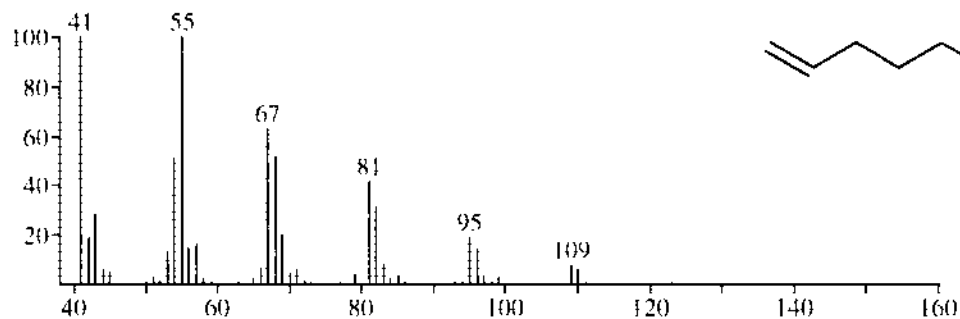
RT: 18.57 AI: 1263 KI: 1266 **Dec-9-en-1-ol**

CAS#: 13019-22-2 MF: C₁₀H₂₀O FW: 156 MSD LIB#: 561

CN: 9-decen-1-ol

Synonyms: decylenic alcohol

Source: IFF ex Jian-Qin Cu, Kunming



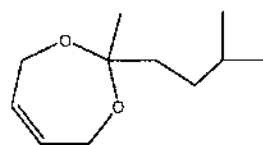
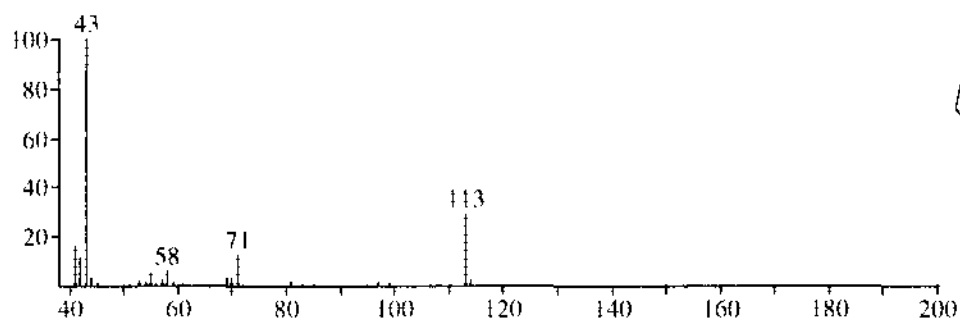
RT: 18.58 AI: 1263 KI: 1266 **Ambersage**

CAS#: 53338-05-9 MF: C₁₁H₂₀O₂ FW: 184 MSD LIB#: 115

CN: 1,3-dioxepin, 4,7-dihydro-2-methyl-2-(3-methylbutyl)-

Synonyms: none

Source: Givaudan



RT: 18.62 AI: 1264 KI: 1267 **Geranial**

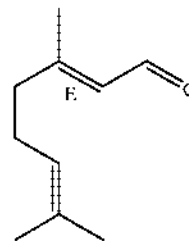
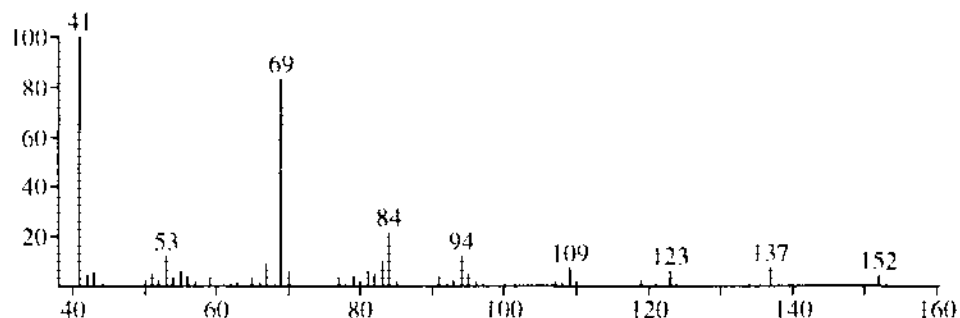
CAS#: 141-27-5 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 992

CN: 2,6-octadienal, 3,7-dimethyl, (E)-

Synonyms: citral a; E-citral

Source: Lemon oil, Lorann Oils; 53.60% *Cymbopogon citratus*, FFI 11:289(1996);

52.55% *Elsholtzia eriostachya*; 45.00% *Melissa officinalis*



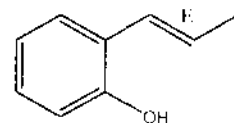
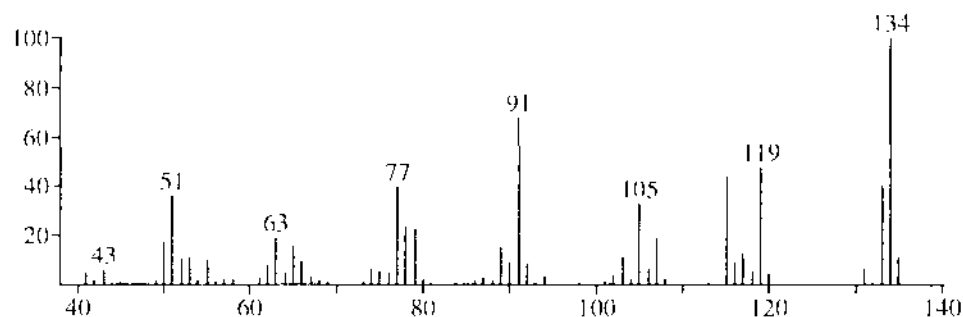
RT: 18.62 AI: 1264 KI: 1267 **Phenol <2-(1E)-propenyl->**

CAS#: 23619-59-2 MF: C₉H₁₀O FW: 134 MSD LIB#: 1272

CN: phenol, 2-(1E)-1-propenyl-

Synonyms: none

Source: Aldrich Chem.



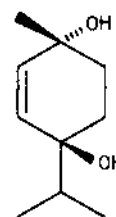
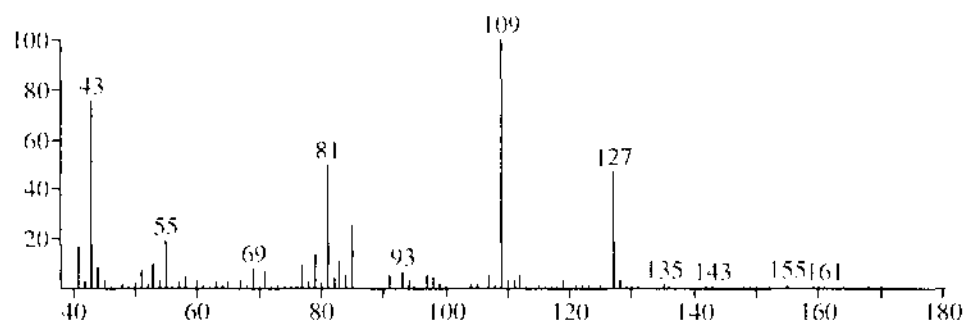
RT: 18.71 AI: 1266 KI: 1269 **Ascaridol glycol <trans->**

CAS#: 21473-37-0 MF: C₁₀H₁₈O₂ FW: 170 MSD LIB#: 1419

CN: 2-cyclohexene-1,4-diol, 1-methyl-4-(1-methylethyl)-, (1R,4S)-

Synonyms: menth-2-en-1,4-diol, p-

Source: *Solidago graminifolia* ex P. Weyerstahl



RT: 18.72 AI: 1266 KI: 1269 **Ethyl salicylate**

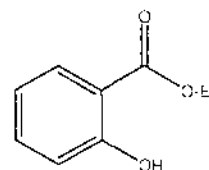
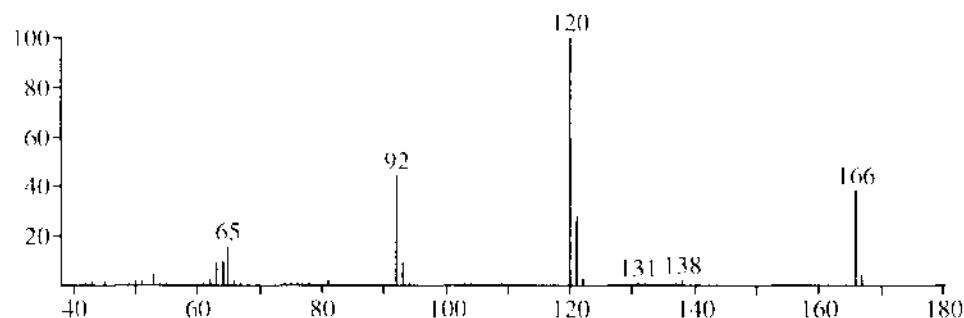
CAS#: 118-61-6 MF: C₉H₁₀O₃ FW: 166 MSD LIB#: 1401

CN: benzoic acid, 2-hydroxy-, ethyl ester

Synonyms: salicylic acid, ethyl ester

Source: Artificial Sassafras flavor, Lorann Oils; 5.50% *Coleus aromaticus*, Pakistan J. Sci.

Res. 28:10(1985); 1.10% *Acacia praecox* (flower); 0.40% *Lilium candidum* (picked flower)



RT: 18.73 AI: 1266 KI: 1269 **Decanol <n->**

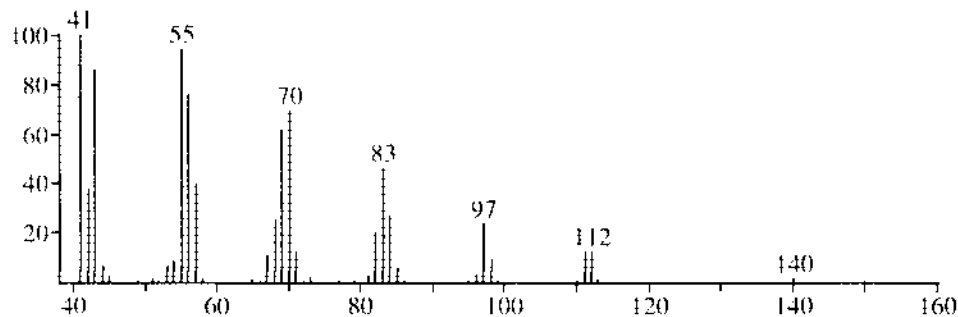
CAS#: 112-30-1 MF: C₁₀H₂₂O FW: 158 MSD LIB#: 36

CN: 1-decanol

Synonyms: capric alcohol; decyl alcohol

Source: ref. epd. ex Lawrence Hogge: 9.90% *Mentha x gentillis*, Riv. Ital. Ess. 55:565(1973);

9.20% *Osmanthus fragrans*; 6.80% *Alpinia katsumadai* (seed)



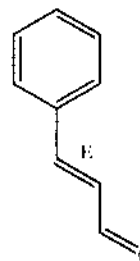
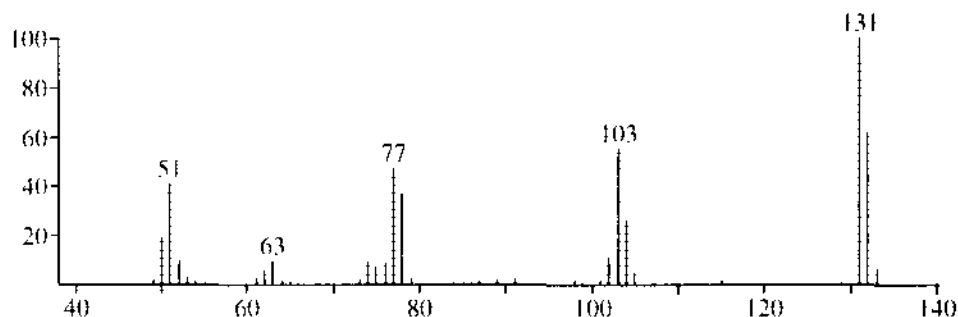
RT: 18.74 AI: 1267 KI: 1270 **Cinnamaldehyde <(E)->**

CAS#: 14371-10-9 MF: C₉H₈O FW: 132 MSD LIB#: 444

CN: 2-propenal, 3-phenyl-, (E)-

Synonyms: trans-3-phenylpropenal

Source: Pfaltz & Bauer ex H. Hills; Cinnamon Oil



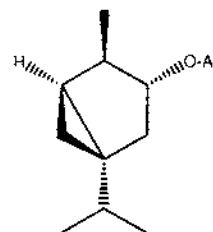
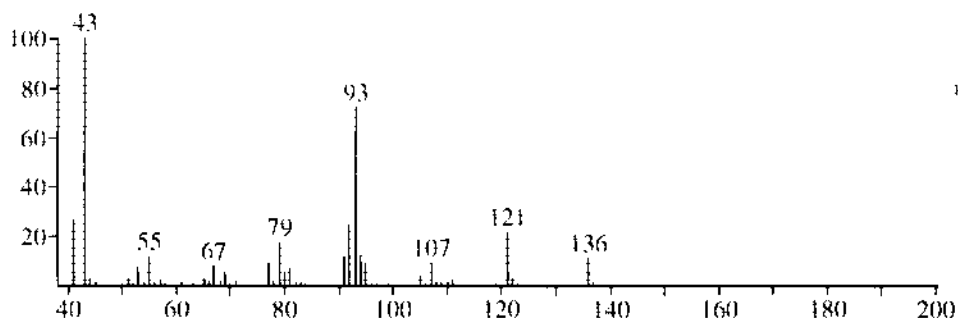
RT: 18.75 AI: 1267 KI: 1270 **Thujanol acetate <iso-3->**

CAS#: 62181-90-2 MF: C₁₂H₂₀O₂ W: 196 MSD LIB#: 1484

CN: bicyclo(3.1.0)hexan-3-ol, 4-methyl-1-(1-methylethyl)-, acetate, (1 α ,3 α ,4 β ,5 α)-

Synonyms: thujanyl acetate, 3-

Source: acetylation of thujanol mixture(6421)



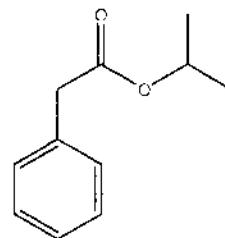
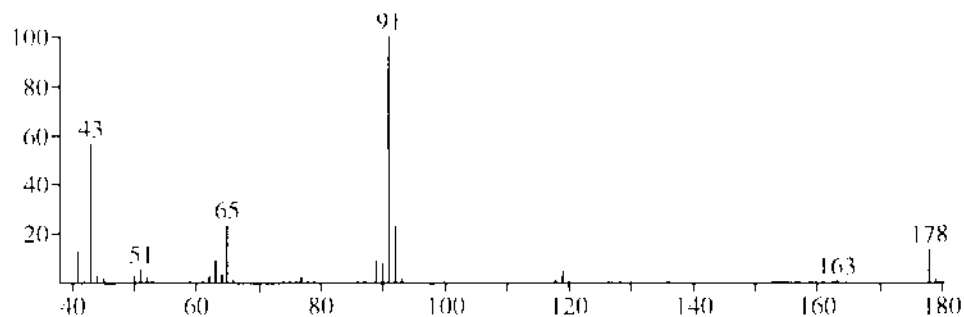
RT: 18.77 AI: 1267 KI: 1270 **Isopropyl phenylacetate**

CAS#: 4861-85-2 MF: C11H14O2 FW: 178 MSD LIB#: 1629

CN: isopropyl phenylacetate

Synonyms: none

Source: Aldrich Chem.



RT: 18.77 AI: 1267 KI: 1270 **Nonanoic acid**

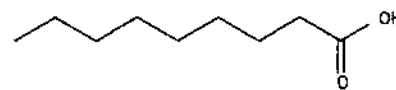
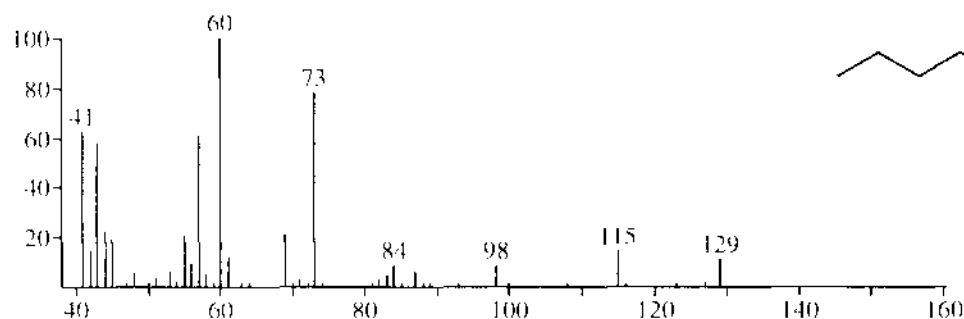
CAS#: 112-05-0 MF: C9H18O2 FW: 158 MSD LIB#: 1166

CN: nonanoic acid

Synonyms: pelargonic acid

Source: ref. epd. ex E. von Rudloff; 2.38% *Sideritis insasiaca*, JEOR 7:699(1995);

2.00% *Hibiscus abelmoschus*; 1.70% *Averrhoa bilimbi*



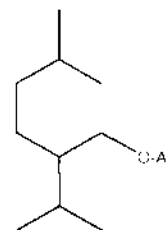
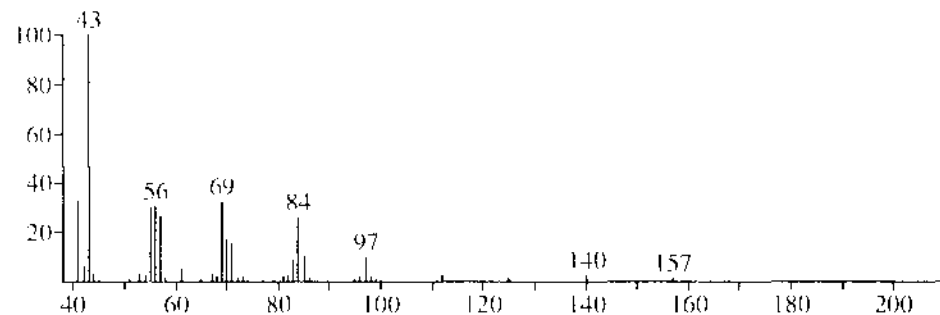
RT: 18.79 AI: 1268 KI: 1271 **Lavandulol acetate <tetrahydro->**

CAS#: 40853-55-2 MF: C12H24O2 FW: 200 MSD LIB#: 985

CN: 1-hexanol, 5-methyl-2-(1-methylethyl)-, acetate

Synonyms: 2-isopropyl 5-methylhexyl acetate

Source: ref. epd. ex E. von Rudloff



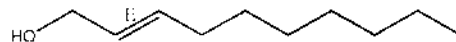
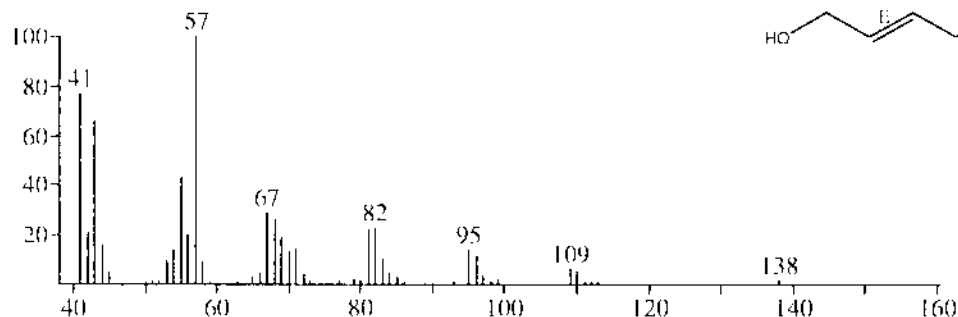
RT: 18.80 AI: 1268 KI: 1271 **Decen-1-ol <(2E)->**

CAS#: 18409-18-2 MF: C₁₀H₂₀O FW: 156 MSD LIB#: 576

CN: 2-decen-1-ol, (E)

Synonyms: trans-2-decenol

Source: Bedoukian Res. ex Art Tucker



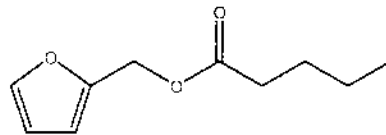
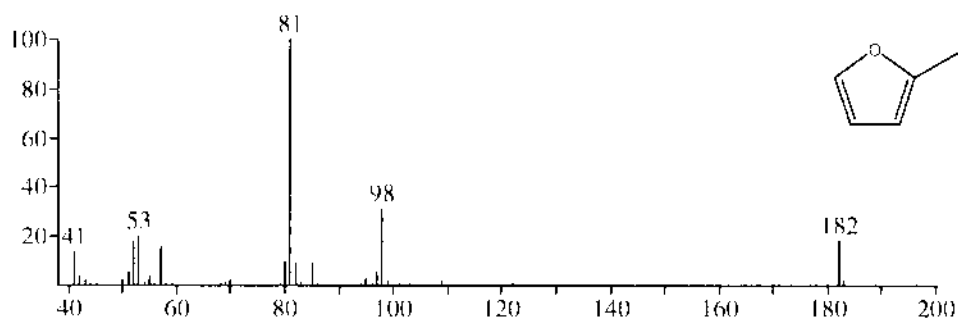
RT: 18.82 AI: 1269 KI: 1271 **Furfuryl pentanoate**

CAS#: 36701-01-6 MF: C₁₀H₁₄O₃ FW: 182 MSD LIB#: 83

CN: pentanoic acid, 2-furanylmethyl ester

Synonyms: furfuryl valerate

Source: Aldrich Chem.



RT: 18.83 AI: 1269 KI: 1271 **Perilla aldehyde**

CAS#: 2111-75-3 MF: C₁₀H₁₄O FW: 150 MSD LIB#: 1264

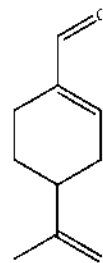
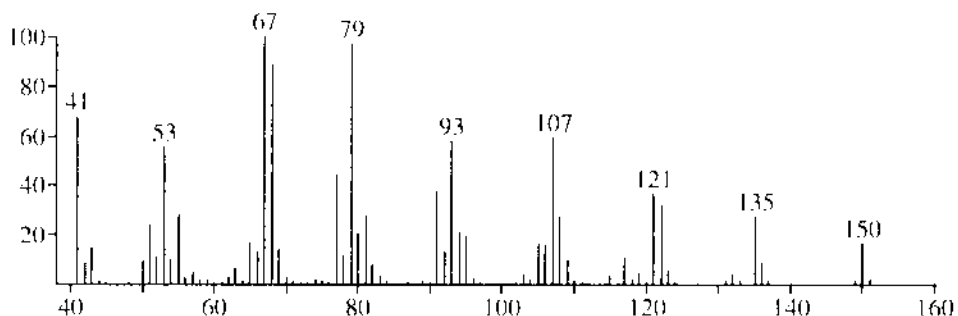
CN: 1-cyclohexene-1-carboxaldehyde, 4-(1-methylethenyl)-

Synonyms: p-mentha-1,8-dien-7-al; perillal

Source: *Perilla* oil ex HFF ex R. Trenkle; 93.06% *Perilla frutescens*.

p. 177, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong(1993);

70.74% *Pectis prostrata* (leaf); 43.40% *Perilla acuta*



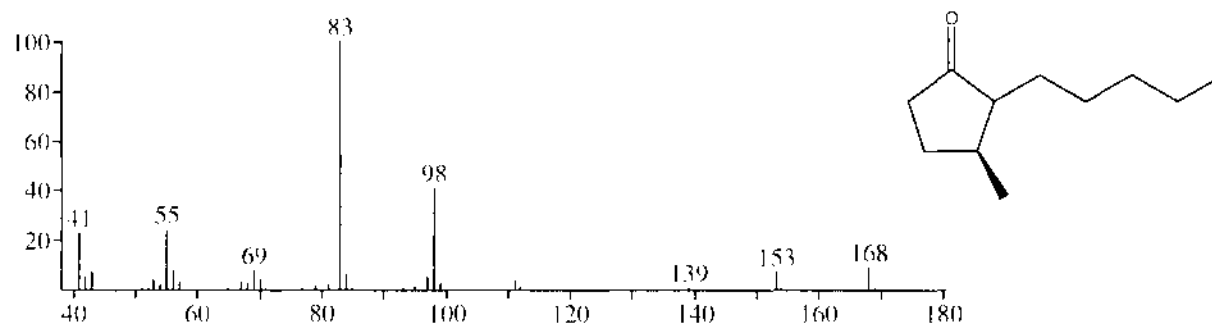
RT: 18.84 AI: 1269 KI: 1272 **Tetrahydro jasmine <cis->**

CAS#: 71535-28-9 MF: C₁₁H₂₀O FW: 168 MSD LIB#: 1955

CN: cyclopentanone, 3-methyl-2-pentyl-, cis-

Synonyms: none

Source: Bedoukian Res. ex JJ Brophy



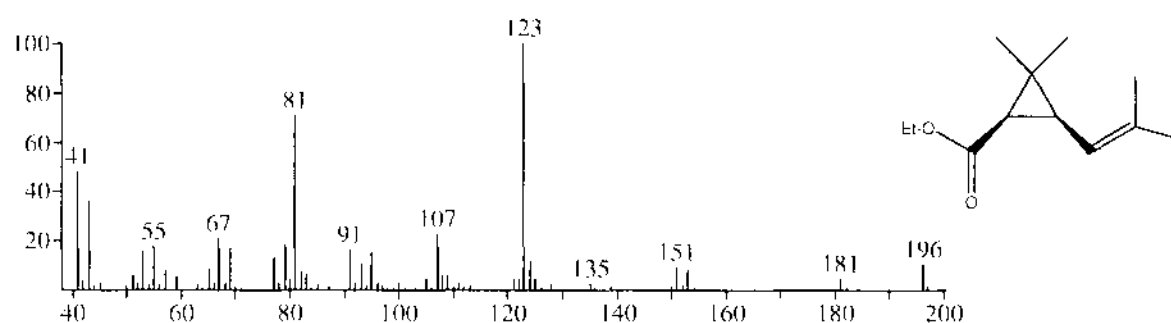
RT: 18.87 AI: 1270 KI: 1272 **Ethyl chrysanthemumate <cis->**

CAS#: 41641-26-3 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 665

CN: cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, ethyl ester, (1R,3S)-

Synonyms: none

Source: ref. epd. ex P. Weyerstahl



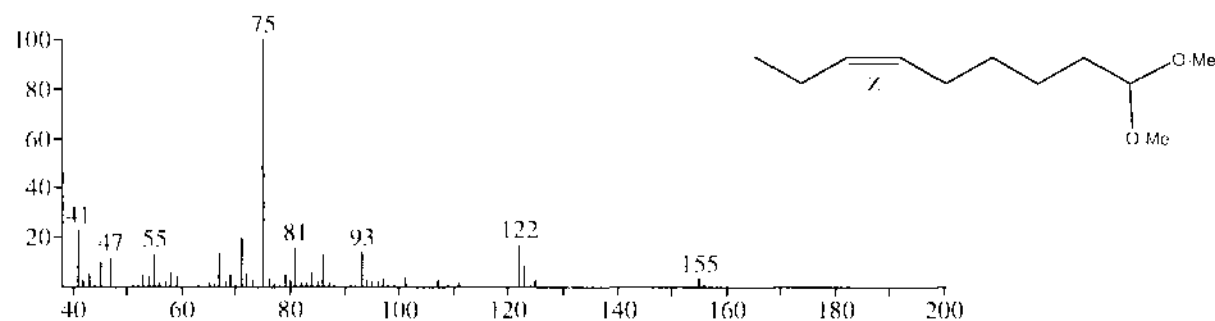
RT: 18.89 AI: 1270 KI: 1273 **Nonenal <dimethyl acetal-(3Z)->**

CAS#: 68555-53-3 MF: C₁₁H₂₂O₂ FW: 186 MSD LIB#: 2122

CN: 3-nonene, 9,9 dimethoxy, (Z)

Synonyms: none

Source: Bedoukian Res.



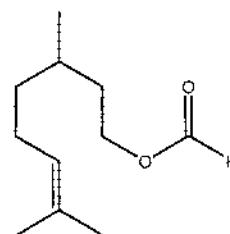
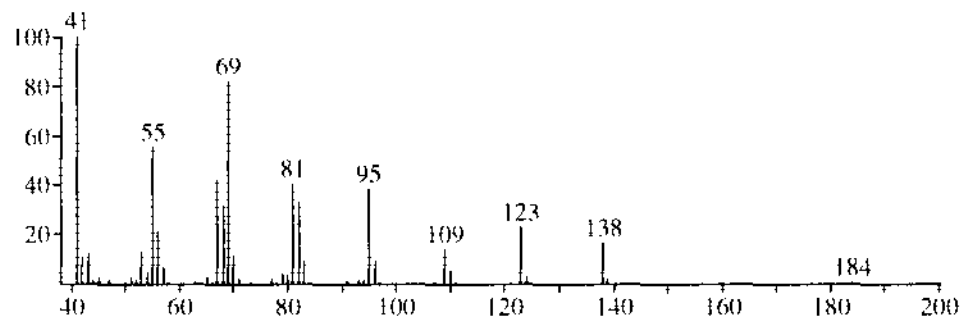
RT: 18.92 AI: 1271 KI: 1273 **Citronellyl formate**

CAS#: 105-85-1 MF: C₁₁H₂₀O₂ FW: 184 MSD LIB#: 730

CN: 6-octen-1-ol, 3,7-dimethyl-, formate

Synonyms: none

Source: Geranium absolute, Firmenich ex AF Thomas; 12.80% *Pelargonium graveolens* (Australia), Southwell, et al, Perf. Flav. 20:11(1995); 12.39% *Pelargonium graveolens* (bourbon),



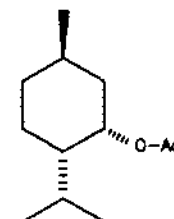
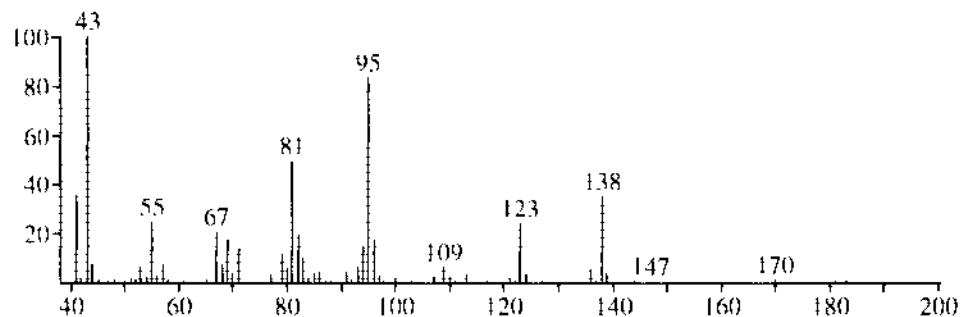
RT: 18.92 AI: 1271 KI: 1273 **Menthyl acetate <neo>**

CAS#: 2230-87-7 MF: C₁₂H₂₂O₂ FW: 198 MSD LIB#: 1262

CN: cyclohexanol, 5-methyl-2-(1-methylethyl)-, acetate, (1 α ,2 α ,5 β)-

Synonyms: menthol, acetate, trans-1,3,trans-1,4-

Source: acetylation of peppermint oil (5498);



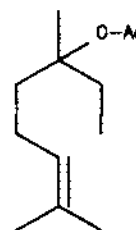
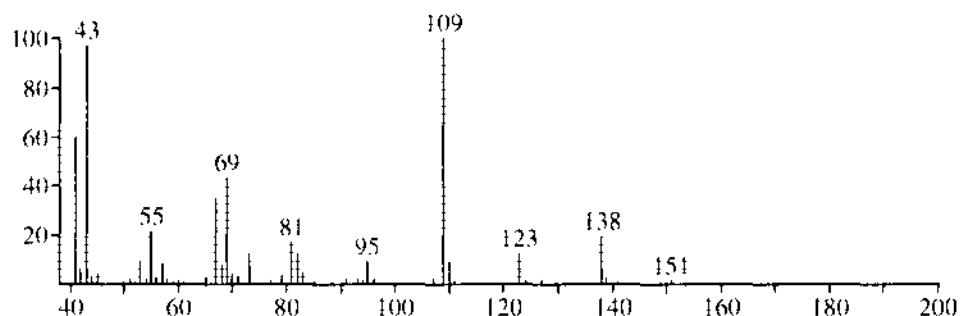
RT: 18.99 AI: 1272 KI: 1275 **Linalool acetate <dihydro>**

CAS#: 108597-90-6 MF: C₁₂H₂₂O₂ FW: 198 MSD LIB#: 1016

CN: 3,7-dimethyl-6-octen-3-ol, acetate

Synonyms: none

Source: acetylation of dihydro-linalool(6280)



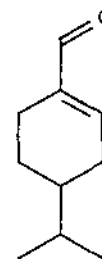
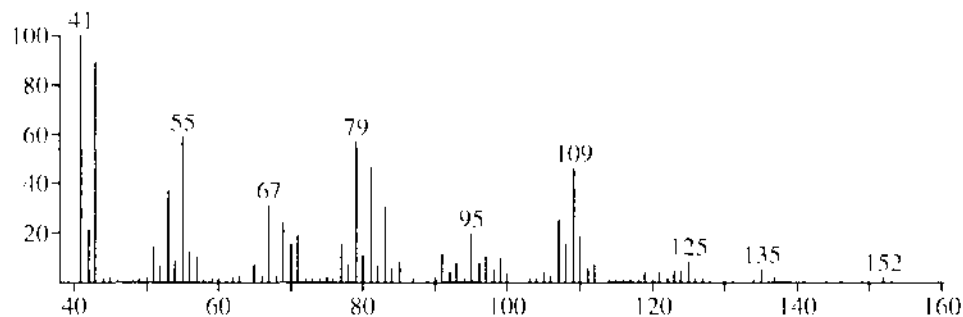
RT: 19.00 AI: 1273 KI: 1275 **Menth-1-en-7-al <p->**

CAS#: 21391-98-0 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1420

CN: 1-cyclohexene-1-carboxaldehyde, 4-(1-methylethyl)-

Synonyms: phellandranal

Source: *Solidago graminifolia* oil ex P. Weyerstahl



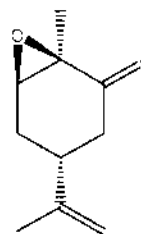
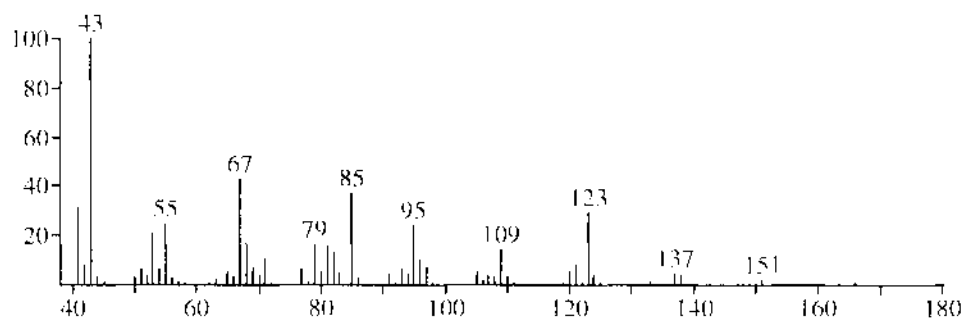
RT: 19.02 AI: 1273 KI: 1276 **Carvone oxide <trans->**

CAS#: 39903-97-4 MF: C₁₀H₁₄O₂ FW: 166 MSD LIB#: 375

CN: 7-oxabicyclo[4.1.0]heptan-2-one, 1-methyl-4-(1-methylethenyl)-, (1S-(1a,4a,6a))-

Synonyms: 1,6-epoxyisodihydrocarvone

Source: ref. cpd. ex H. Hills



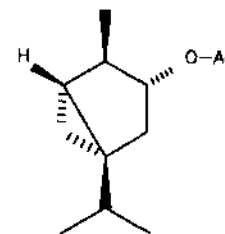
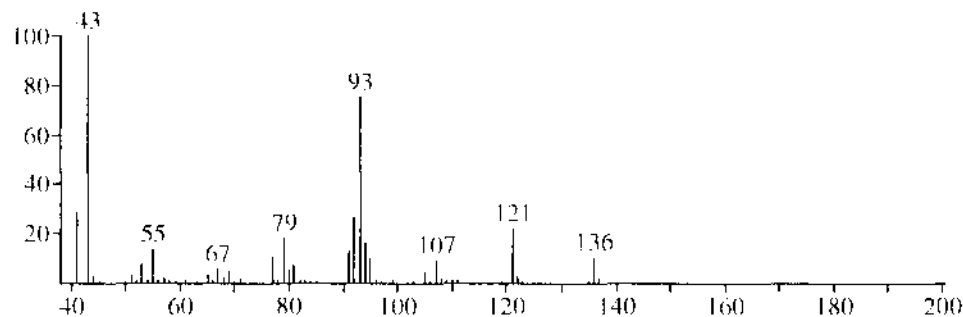
RT: 19.04 AI: 1273 KI: 1276 **Thujanol acetate <neo-3->**

CAS#: 000-00-0 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 1485

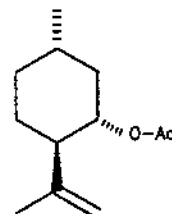
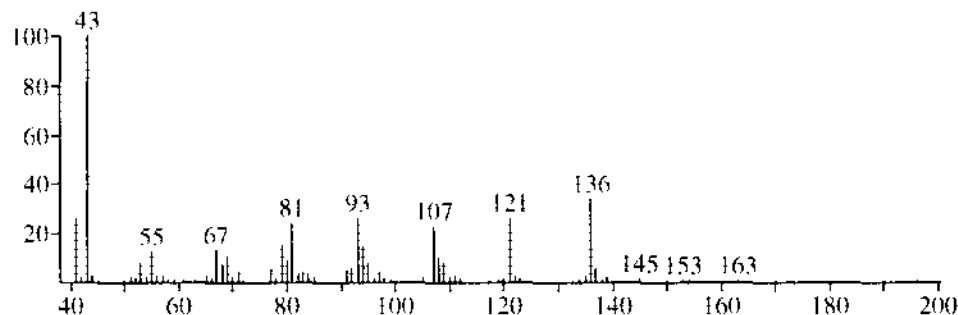
CN: not assigned

Synonyms: isothujanyl acetate, 3-

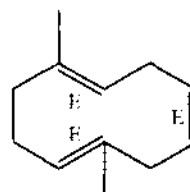
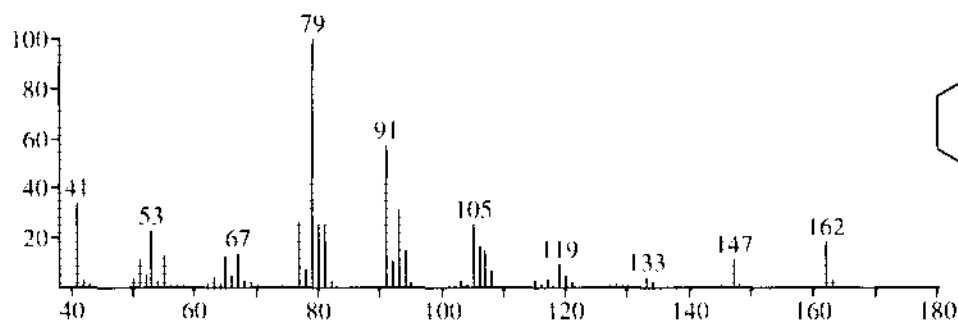
Source: acetylation of thujanol mixture(6421)



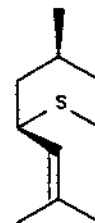
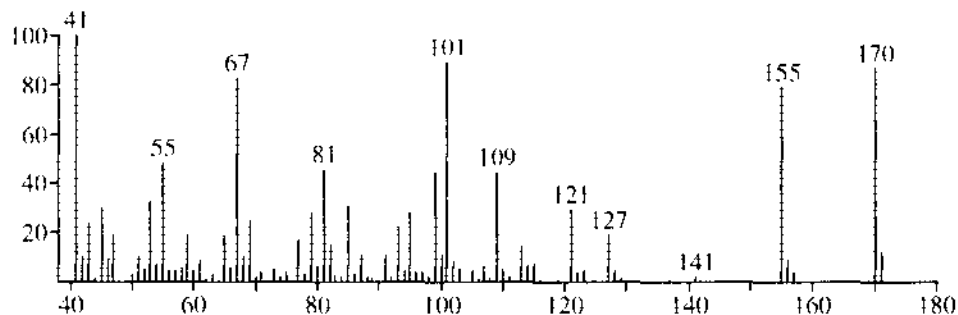
RT: 19.05 AI: 1274 KE: 1276 **Isopulegyl acetate <neo->**
 CAS#: 109010-10-8 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 883
 CN: cyclohexanol, 5-methyl-2-(1-methylethenyl)-, acetate, (1 α ,2 β ,5 α)-
 Synonyms: none
 Source: Aldrich Chem.



RT: 19.05 AI: 1274 KE: 1276 **Pregeljerene B**
 CAS#: 556799-96-3 MF: C₁₂H₁₈ FW: 162 MSD LIB#: 1758
 CN: 1,4,7-cyclodecatriene, 1,7-dimethyl-, (1E,4E,7E)-
 Synonyms: erectopatene
 Source: *Juniperus erectopatens* leaf oil, Cool & RP Adams, Phytochem. 63:105(2003)



RT: 19.05 AI: 1274 KE: 1276 **Thio rose oxide <cis->**
 CAS#: 000-00-0 MF: C₁₀H₁₈S FW: 170 MSD LIB#: 1478
 CN: not assigned
 Synonyms: none
 Source: ref. epd. ex P. Weyerstahl



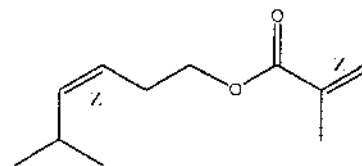
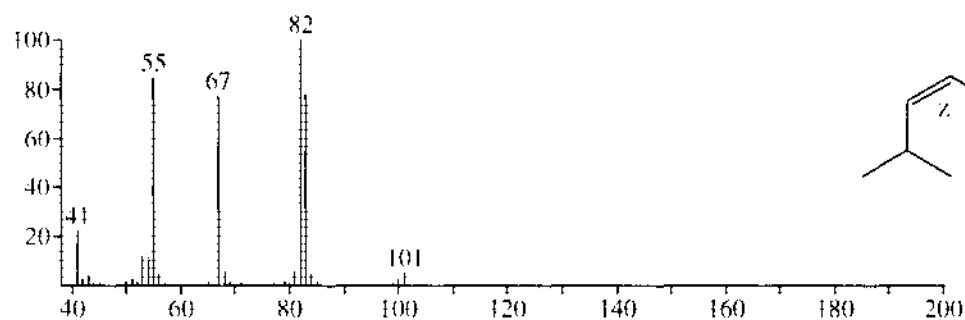
RT: 19.10 AI: 1275 KI: 1277 **Hexenyl angelate <(3Z)->**

CAS#: 84060-80-0 MF: C₁₁H₁₈O₂ FW: 182 MSD LIB#: 1993

CN: 2-butenoic acid, 2-methyl-, (3Z)-3-hexenyl ester, (2Z)-

Synonyms: cis-hexenyl angelate

Source: Bedoukian Res. ex JJ Brophy



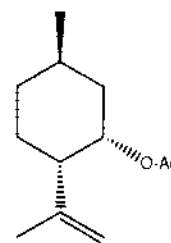
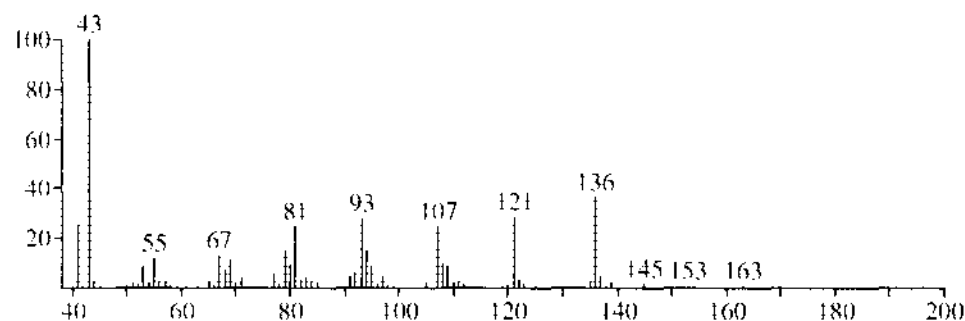
RT: 19.10 AI: 1275 KI: 1277 **Isopulegyl acetate**

CAS#: 109010-12-0 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 884

CN: cyclohexanol, 5-methyl-2-(1-methylethenyl)-, acetate, (1α,2α,5β)-

Synonyms: none

Source: Aldrich Chem.



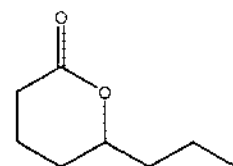
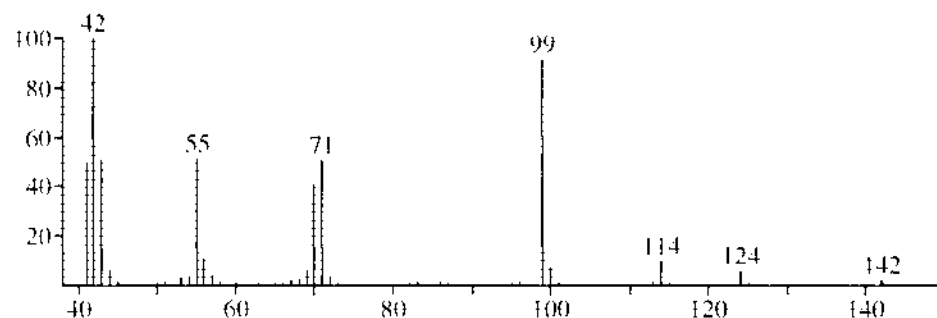
RT: 19.15 AI: 1276 KI: 1278 **Octalactone <δ->**

CAS#: 698-76-0 MF: C₈H₁₄O₂ FW: 142 MSD LIB#: 2150

CN: 2H-pyran-2-one, tetrahydro-6-propyl-

Synonyms: octanolide, 5-

Source: Bedoukian Res.: 0.04% *Hedychium coronarium*, FEJ 6:217(1991);
0.02% *Ribes nigrum*



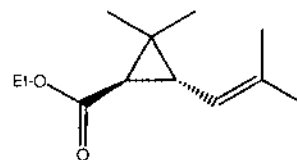
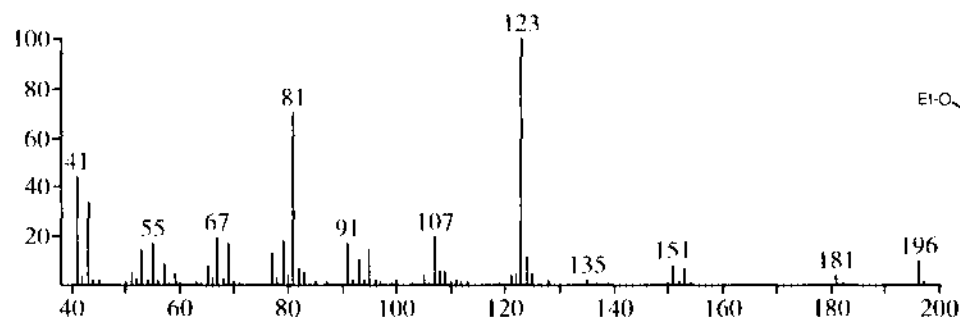
RT: 19.18 AI: 1277 KI: 1279 **Ethyl chrysanthemumate <trans->**

CAS#: 41641-25-2 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 666

CN: cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, ethyl ester, (1R,3R)-

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl



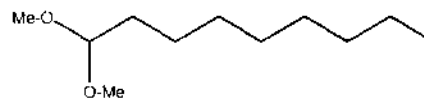
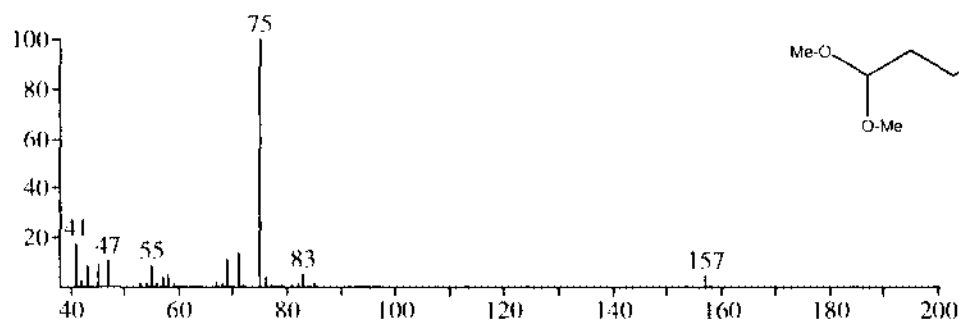
RT: 19.19 AI: 1277 KI: 1279 **Nonanal <dimethyl acetal->**

CAS#: 18824-63-0 MF: C₁₁H₂₄O₂ FW: 188 MSD LIB#: 1165

CN: nonane, 1,1-dimethoxy-

Synonyms: pelargonaldehyde dimethyl acetal

Source: Bedoukian Res. ex Art Tucker



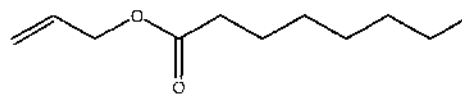
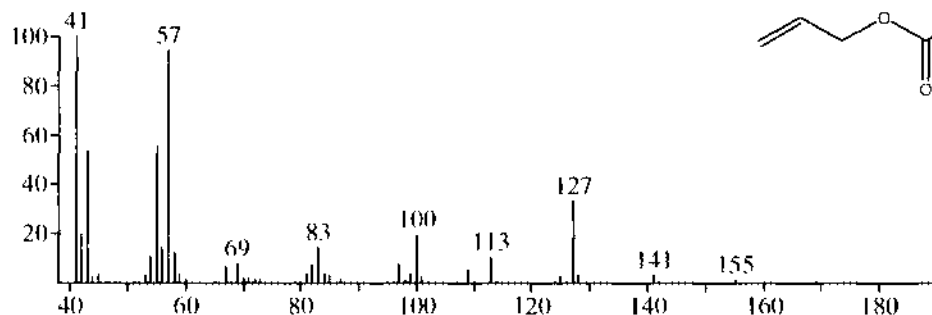
RT: 19.22 AI: 1278 KI: 1280 **Allyl octanoate**

CAS#: 4230-97-1 MF: C₁₁H₂₀O₂ FW: 184 MSD LIB#: 114

CN: octanoic acid, 2-propenyl ester

Synonyms: allyl caprylate

Source: Aldrich Chem. ex Art Tucker



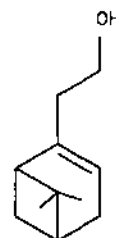
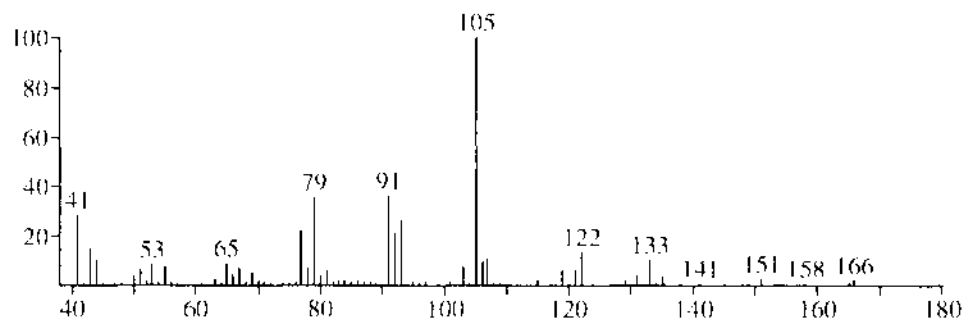
RT: 19.23 AI: 1278 KI: 1280 **Nopol**

CAS#: 128-50-7 MF: C₁₁H₁₈O FW: 166 MSD LIB#: 1175

CN: bicyclo(3.1.1)hept-2-ene-2-ethanol, 6,6-dimethyl-

Synonyms: homomyrtenol

Source: SCM Chems. ex H. Hills



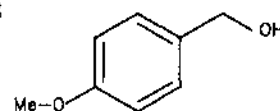
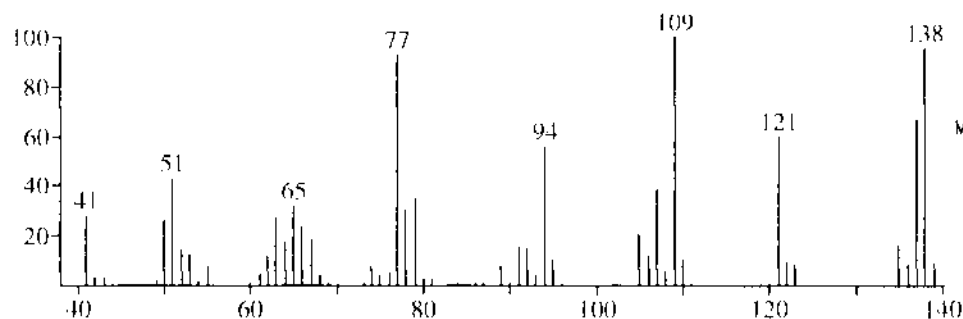
RT: 19.24 AI: 1278 KI: 1280 **Anisyl alcohol <p->**

CAS#: 105-13-5 MF: C₈H₁₀O₂ FW: 138 MSD LIB#: 175

CN: benzenemethanol, 4-methoxy-

Synonyms: p-anisyl alcohol

Source: Aldrich Chem.



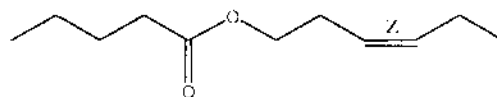
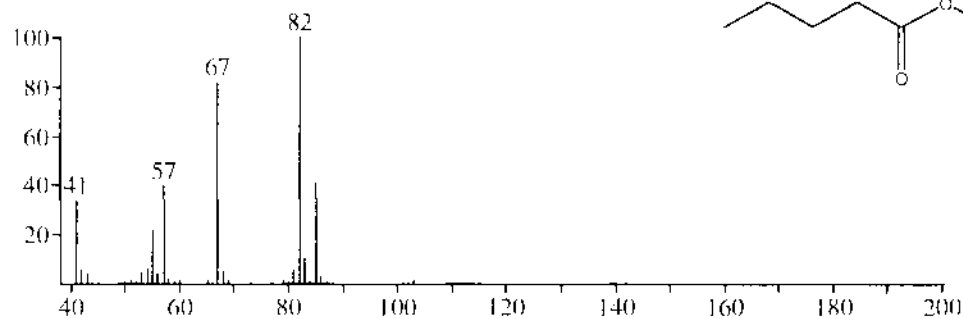
RT: 19.28 AI: 1279 KI: 1281 **Hexenyl valerate <(3Z)->**

CAS#: 35852-46-1 MF: C₁₁H₂₀O₂ FW: 184 MSD LIB#: 1973

CN: pentanoic acid, 3-hexenyl ester, (Z)-

Synonyms: valeric acid, cis-3 hexenyl ester

Source: Bedoukian Res. ex JJ Brophy



RT: 19.30 AI: 1279 KI: 1281 **Ethyl acetophenone <p->**

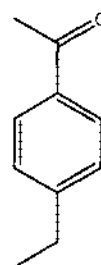
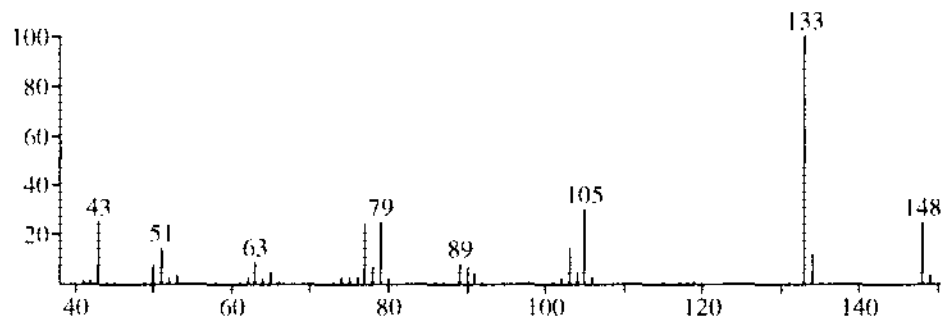
CAS#: 937-30-4 MF: C₁₀H₁₂O FW: 148 MSD LIB#: 663

CN: 1-(4-ethylphenyl)-ethanone

Synonyms: p-acetylethylbenzene

Source: Aldrich Chem.; 1.42% *Comptonia peregrina*, FIJ 3:65(1988);

0.50% *Cymbidium sinense* (flower); 0.01% *Spartium junceum*



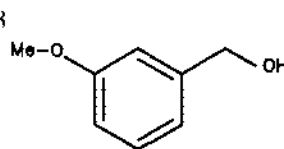
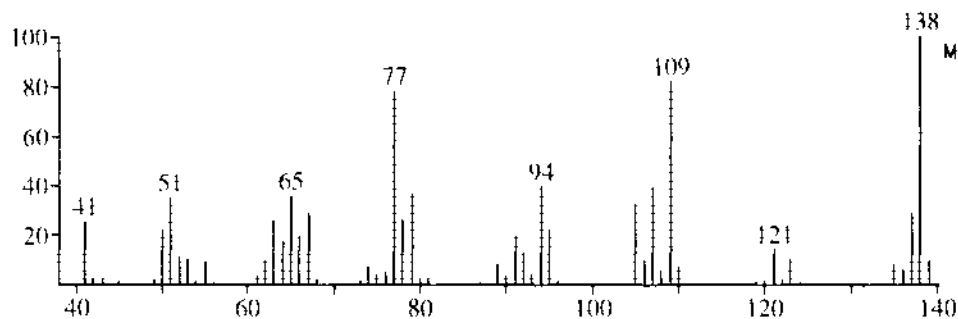
RT: 19.31 AI: 1280 KI: 1282 **Anisyl alcohol <meta->**

CAS#: 6971-51-3 MF: C₈H₁₀O₂ FW: 138 MSD LIB#: 174

CN: benzenemethanol, 3-methoxy-

Synonyms: none

Source: Aldrich Chem.



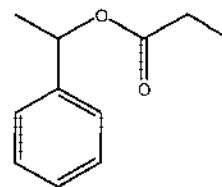
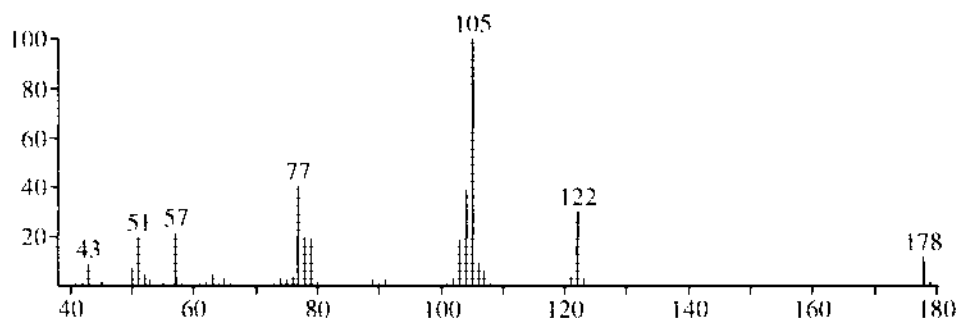
RT: 19.31 AI: 1280 KI: 1282 **Methyl benzylpropanoate <α->**

CAS#: 120-45-6 MF: C₁₁H₁₄O₂ FW: 178 MSD LIB#: 1650

CN: benzenemethanol, α-methyl-, propanoate

Synonyms: styrallyl propionate, 1-phenylethyl propionate

Source: Aldrich Chem.



RT: 19.32 AI: 1280 KE: 1282 **Neryl formate**

CAS#: 2142-94-1 MF: C₁₁H₁₈O₂ FW: 182 MSD LIB#: 1146

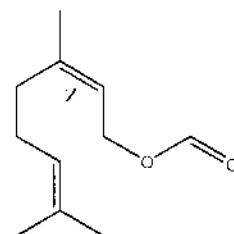
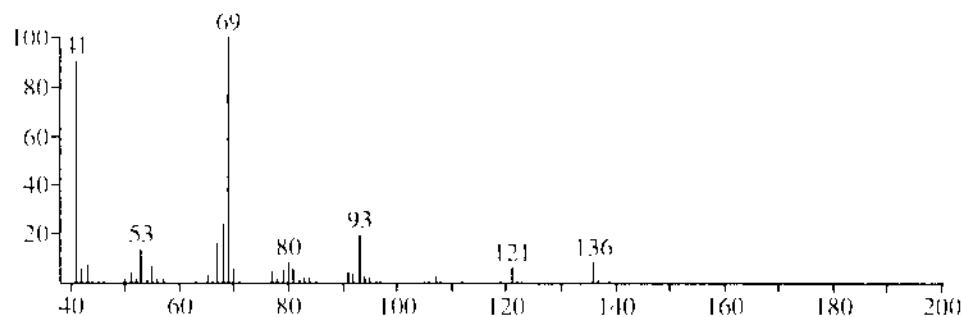
CN: 2,6-octadien-1-ol, 3,7-dimethyl-, formate, (Z)

Synonyms: none

Source: Bedoukian Res. ex Art Tucker; 1.59% *Citrus jambhiri*.

1st Intl. Citrus Symp. 1:441(1969).U. Calif. Press, Riverside, CA;

1.00% *Citrus limon* (leaf); 0.75% *Cymbopogon martini*



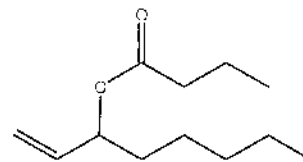
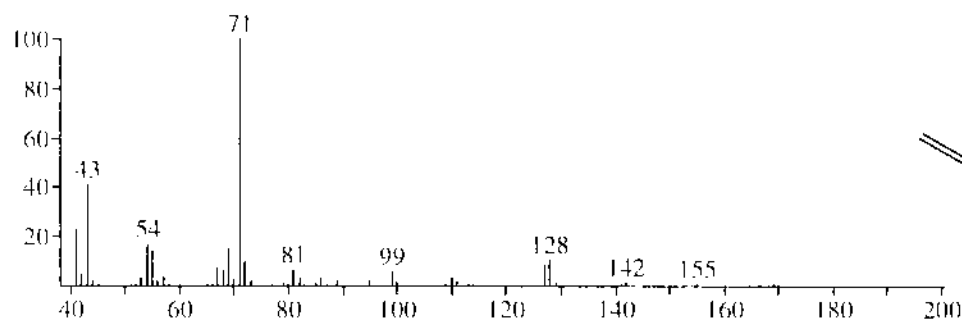
RT: 19.32 AI: 1280 KE: 1282 **Octen-3-ol butanoate <1->**

CAS#: 16491-54-6 MF: C₁₂H₂₂O₂ FW: 198 MSD LIB#: 2054

CN: butanoic acid, 1-ethenylhexyl ester

Synonyms: pentylalyl butyrate

Source: Bedoukian Res.



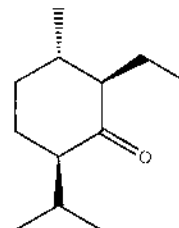
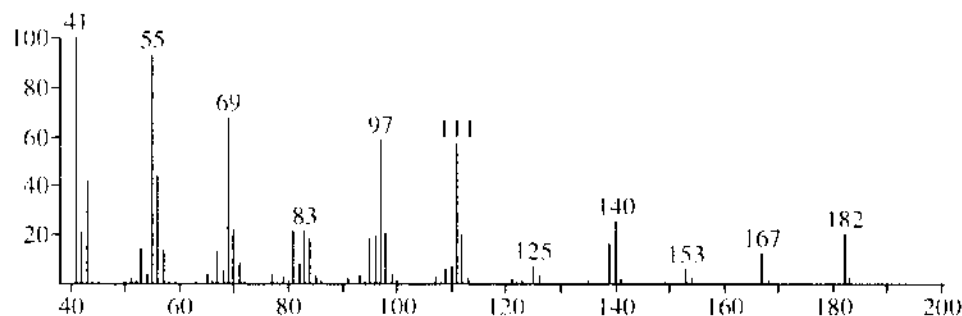
RT: 19.34 AI: 1280 KE: 1282 **Ethyl menthone <2->**

CAS#: 169209-96-5 MF: C₁₂H₂₂O FW: 182 MSD LIB#: 676

CN: cyclohexanone, 2-ethyl-3-methyl-6-(1-methylethyl)-, (2R-(2α, 3β,6α))-

Synonyms: none

Source: Ref. epd. ex Larry Cool



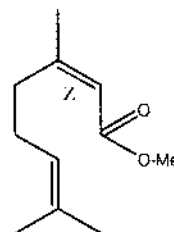
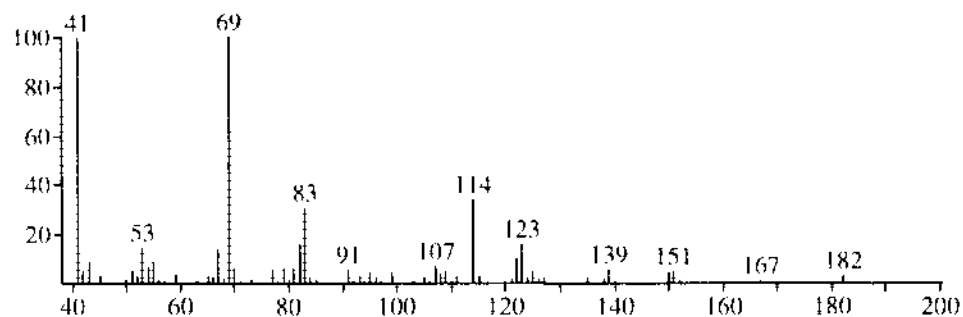
RT: 19.34 AI: 1280 KI: 1282 **Methyl nerolate**

CAS#: 1862-61-9 MF: C₁₁H₁₈O₂ FW: 182 MSD LIB#: 1097

CN: 2,6-octadienoic acid, 3,7-dimethyl-, methyl ester, (Z)-

Synonyms: cis-geranic acid, methyl ester; methyl nerate

Source: Firmenich Chem.



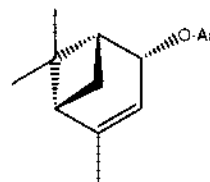
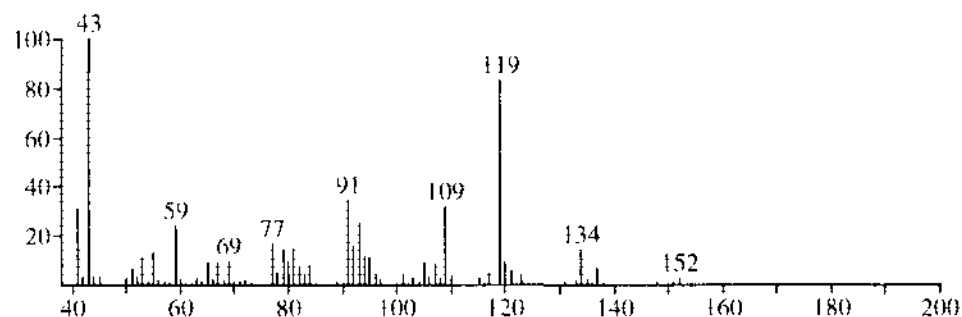
RT: 19.35 AI: 1280 KI: 1282 **Verbenyl acetate <cis->**

CAS#: 29135-27-1 MF: C₁₂H₁₈O₂ FW: 194 MSD LIB#: 1549

CN: bicyclo(3.1.1)hept-3-en-2-ol, 4,6,6-trimethyl-, acetate, (1R-(1α,2β,5α))-

Synonyms: 2-pinen-4-ol acetate, (1R,4R,5R)-

Source: acetylation of verbenols (5531)



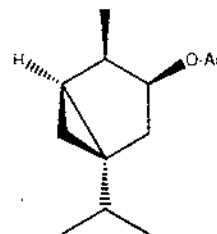
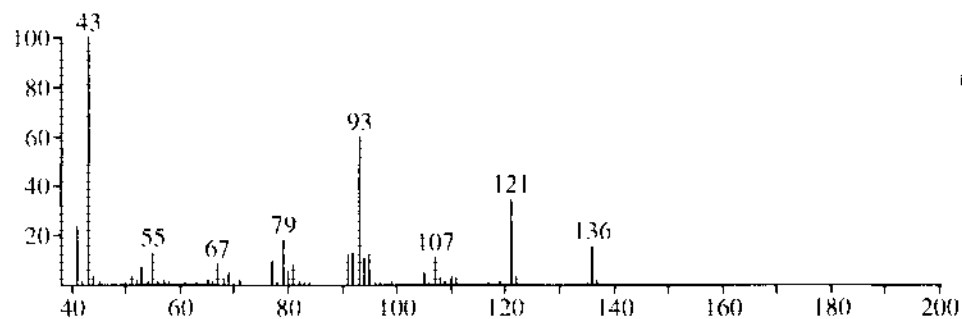
RT: 19.38 AI: 1281 KI: 1283 **Thujanol acetate <neoiso-3->**

CAS#: 62181-91-3 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 1486

CN: bicyclo(3.1.0)hexan-3-ol, 4-methyl-1-(1-methylethyl)-, acetate, (1α,3β,4β,5α)-

Synonyms: neothujanyl acetate, 3-

Source: acetylation of thujanol mixture(6421)



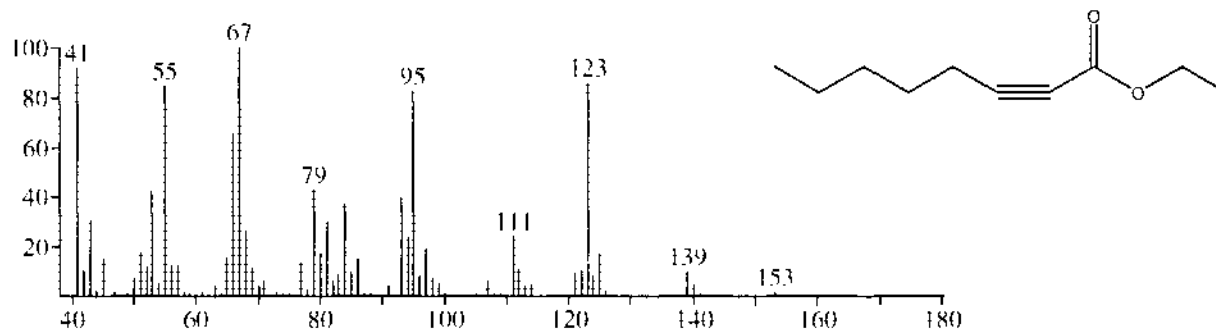
RT: 19.40 AI: 1282 KI: 1283 **Ethyl 2-octynoate**

CAS#: 10519-20-7 MF: C₁₀H₁₆O₂ FW: 168 MSD LIB#: 681

CN: 2-octynoic acid, ethyl ester

Synonyms: ethyl heptyne carbonate

Source: Bedoukian Res. ex Art Tucker



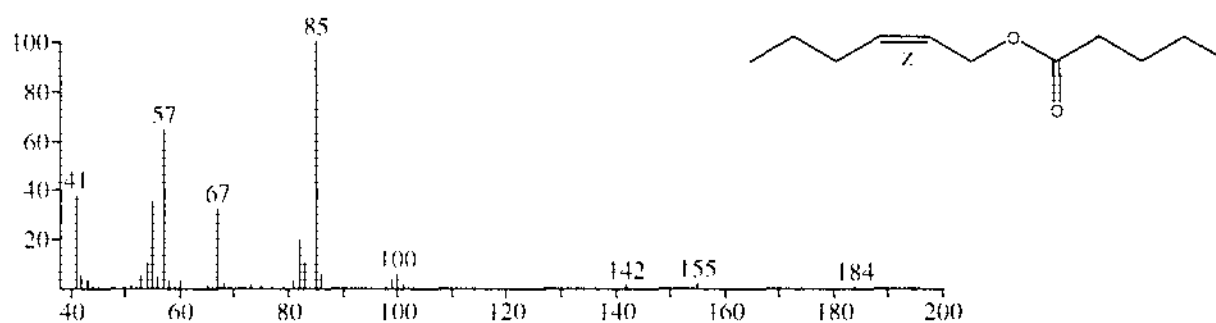
RT: 19.40 AI: 1282 KI: 1283 **Hexenyl valerate <(Z)->**

CAS#: 56922-78-2 MF: C₁₁H₂₀O₂ FW: 184 MSD LIB#: 1934

CN: pentanoic acid, 2-hexenyl ester, (Z)-2-hexenyl valerate

Synonyms: pentanoic acid, 2Z-hexenyl ester

Source: Bedoukian Res. ex JJ Brophy



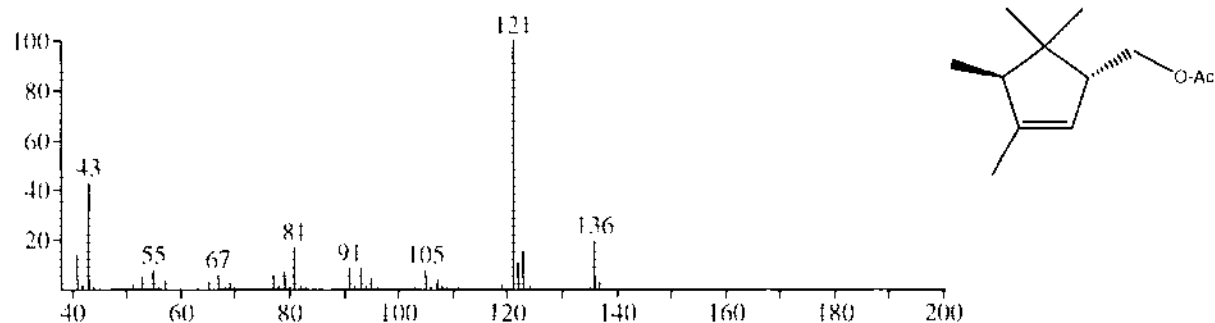
RT: 19.42 AI: 1282 KI: 1284 **Necrodol acetate <trans-α->**

CAS#: 156053-83-7 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 2095

CN: 2-cyclopentene-1-methanol, 3,4,5,5-tetramethyl-, acetate, (1R-trans)-

Synonyms: none

Source: *Lavandula luisieri*, ex Nicolas Baldovini



RT: 19.43 AI: 1282 KI: 1284 **Anethole <(E)->**

CAS#: 4180-23-8 MF: C₁₀H₁₂O FW: 148 MSD LIB#: 170

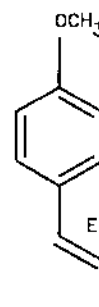
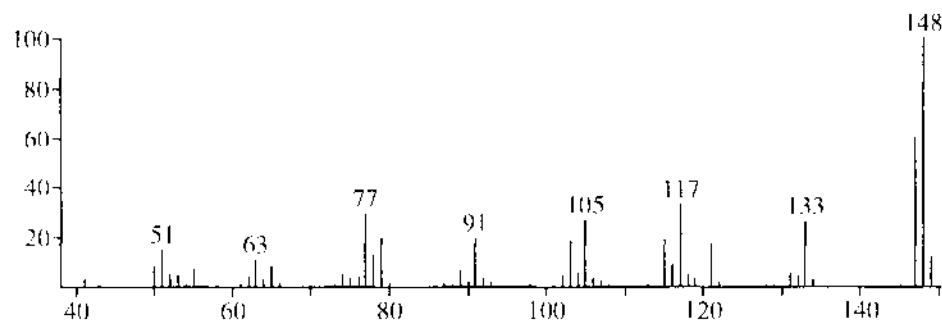
CN: methoxy-4-(1-propenyl)benzene<1->, (E)-

Synonyms: trans-4-(1-propenyl)anisole; trans-p-methoxy-β-methylstyrene

Source: Star Anis oil ex Brian Lawrence: 98.20% *Clausena heptaphylla* leaf,

Rivista Ital 56:683(1974); 96.10% *Pimpinella anisum* (Spain);

94.73% *Pimpinella anisum* (Turkey)



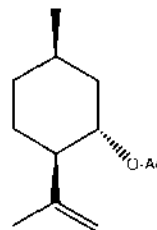
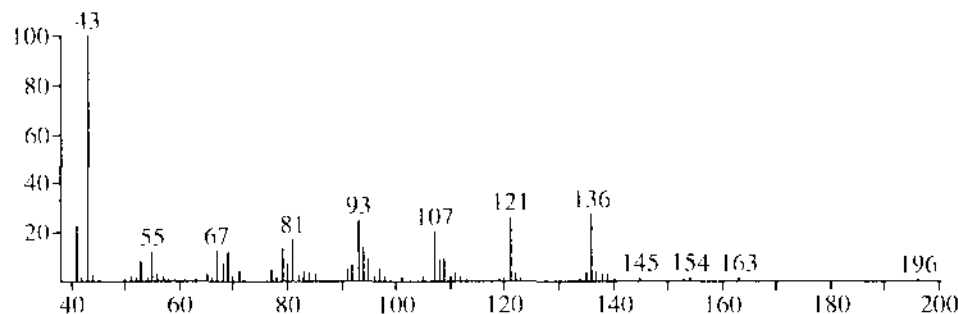
RT: 19.45 AI: 1283 KI: 1285 **Isopulegyl acetate <iso->**

CAS#: 109010-11-9 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 885

CN: cyclohexanol, 5-methyl-2-(1-methylethenyl)-, acetate, (1α,2β,5β)-

Synonyms: none

Source: Aldrich Chem.



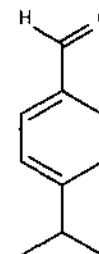
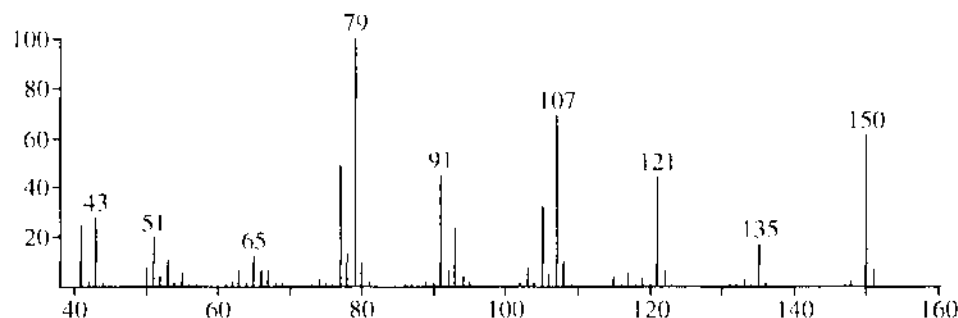
RT: 19.46 AI: 1283 KI: 1285 **Terpinen-7-al <α->**

CAS#: 1197-15-5 MF: C₁₀H₁₄O FW: 150 MSD LIB#: 1339

CN: 1,3-cyclohexadiene-1-carboxaldehyde, 4-(1-methylethyl)-

Synonyms: p-mentha-1,3-dien-7-al

Source: *Polylophium involucreatum* oil ex JJC Scheffer



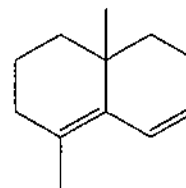
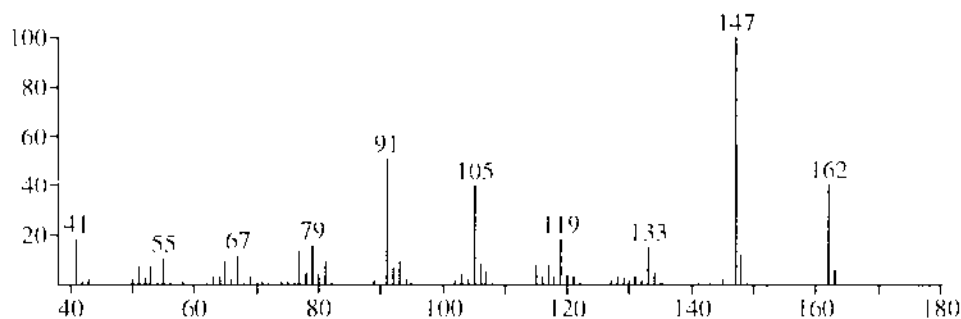
RT: 19.48 AI: 1283 KI: 1285 **Cogeijerene**

CAS#: 5988-83-0 MF: C₁₂H₁₈ FW: 162 MSD LIB#: 1832

CN: naphthalene, 2,3,4,4a,5,6-hexahydro-1,4a-dimethyl-

Synonyms: none

Source: ref. cpd. ex Ian Southwell



RT: 19.48 AI: 1283 KI: 1285 **Isobornyl acetate**

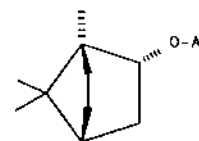
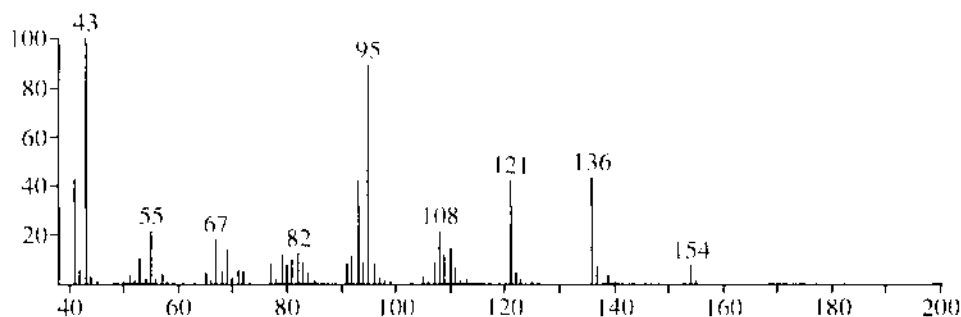
CAS#: 125-12-2 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 856

CN: bicyclo(2.2.1)heptan-2-ol, 1,7,7-trimethyl-, acetate, exo-

Synonyms: isoborneol acetate

Source: ref. cpd. ex Brian Lawrence; 18.80% *Curcuma pierreana*, JEOR 7:261(1995);

11.40% *Inula viscosa*; 3.39% *Salvia officinalis*



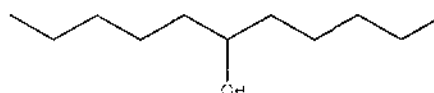
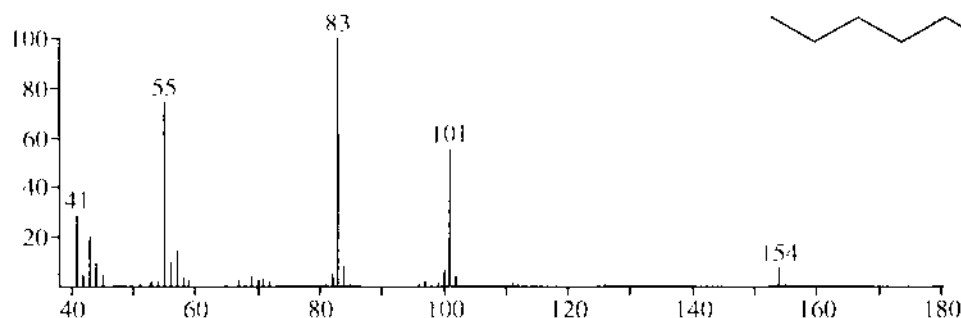
RT: 19.51 AI: 1284 KI: 1286 **Undecanol <6->**

CAS#: 23708-56-7 MF: C₁₁H₂₄O FW: 172 MSD LIB#: 1996

CN: 6-undecanol

Synonyms: dilauryl carbinol

Source: Tokyo Kasai ex JJ Brophy



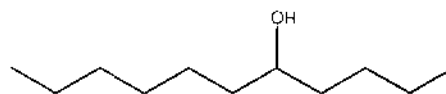
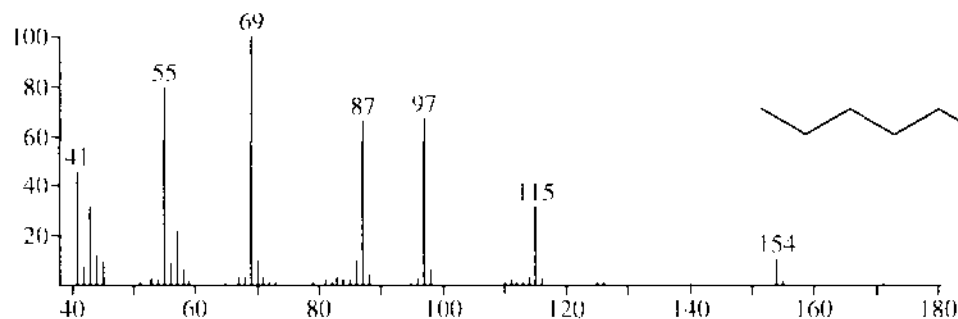
RT: 19.52 AI: 1284 KI: 1286 **Undecanol <5->**

CAS#: 37493-70-2 MF: C₁₁H₂₄O FW: 172 MSD LIB#: 2000

CN: 5-undecanol

Synonyms: none

Source: Tokyo Kasai ex JJ Brophy



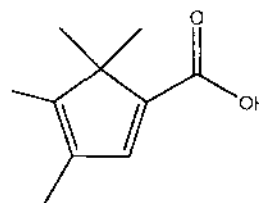
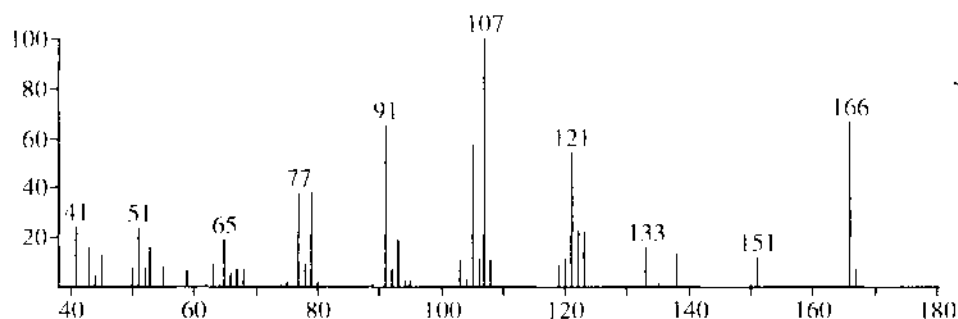
RT: 19.53 AI: 1285 KI: 1286 **Cyclopentadiene carboxylic acid <3,4,5,5-tetramethyl-1,3->**

CAS#: 000-00-0 MF: C₁₀H₁₄O₂ FW: 166 MSD LIB#: 2093

CN: cyclopentadiene carboxylic acid, <3,4,5,5-tetramethyl-1,3->

Synonyms: none

Source: *Lavandula hisieri* oil ex Nicolas Baldovini



RT: 19.56 AI: 1285 KI: 1287 **Safrole**

CAS#: 94-59-7 MF: C₁₀H₁₀O₂ FW: 162 MSD LIB#: 917

CN: benzodioxole<5-(2-propenyl)-1,3->

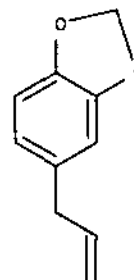
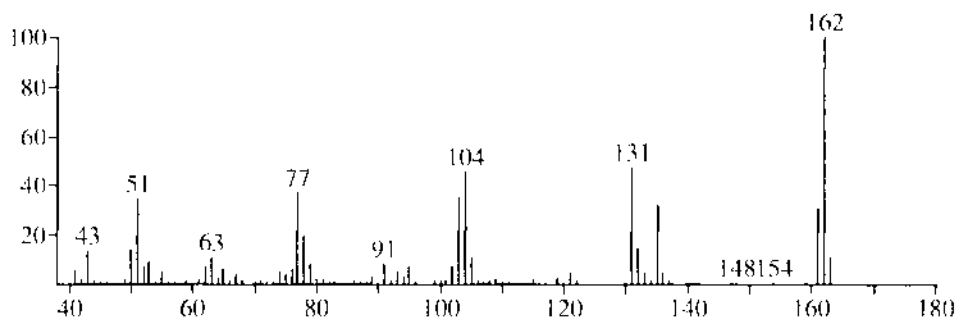
Synonyms: shikimol; rhyuno oil; allylcatechol methylene ether, 4-allyl-1,2-Methylenedioxybenzene;

Allyldioxybenzene Methylene Ether; m-Allylpyrocatechin Methylene Ether

Source: *Juniperus angosturan* leaf oil, RP Adams #2665; 97.66% *Cinnamomum micranthum*,

p. 29, in: Aromatic Plants & Constituents, Peace Book Co., Hong Kong (1993);

92.90% *Sassafras albidum*; 90.30% *Cinnamomum parthenoxylon*



RT: 19.57 AI: 1285 KI: 1287 **Pregeijerene**

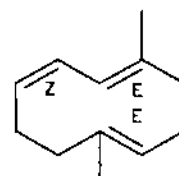
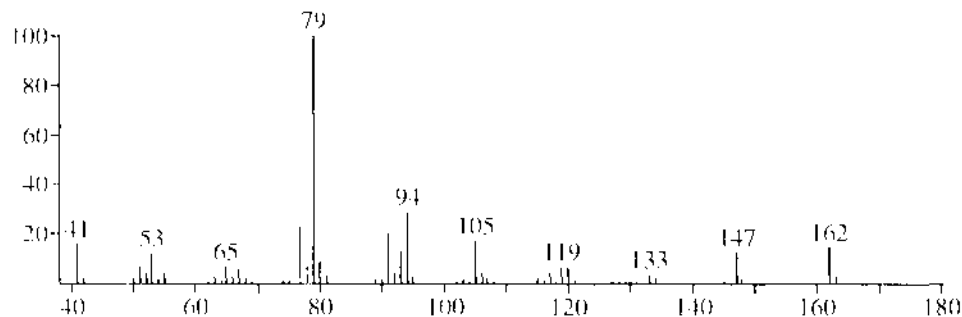
CAS#: 20082-17-1 MF: C₁₂H₁₈ FW: 162 MSD LIB#: 151

CN: 1,3,7-cyclodecatriene, 1,7-dimethyl-, (Z,E,E)-

Synonyms: none

Source: *Amyris diatrya* oil, Dom. Rep. ex Tom Zanoni; 12.90% *Wiedemannia orientalis*,

JEOR 8:543(1996); 12.78% *Pimpinella anisum*; 12.30% *Skimmia laureola*



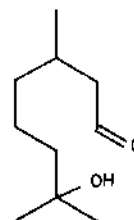
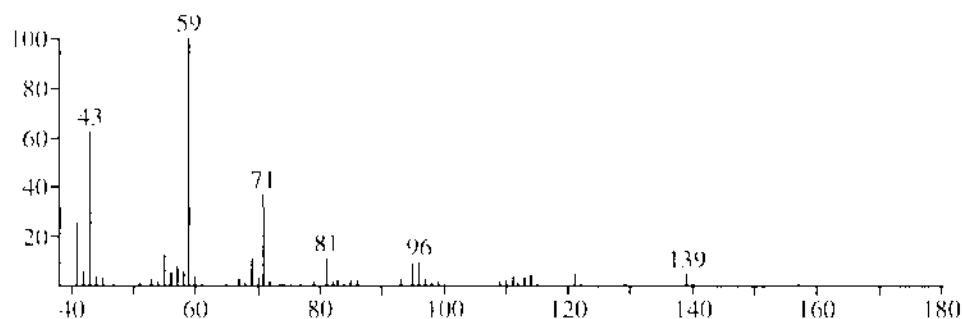
RT: 19.60 AI: 1286 KI: 1288 **Hydroxy citronellal**

CAS#: 107-75-5 MF: C₁₀H₂₀O₂ FW: 172 MSD LIB#: 824

CN: octanal, 7-hydroxy-3,7-dimethyl-

Synonyms: lilyl aldehyde; fixol; cycalial; cyclosia; phixia

Source: ref. cpd. ex Brian Lawrence; 0.12% *Anomum subulatum*, FEJ 11:7(1996)



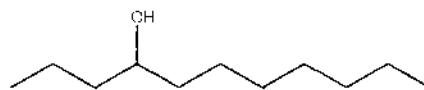
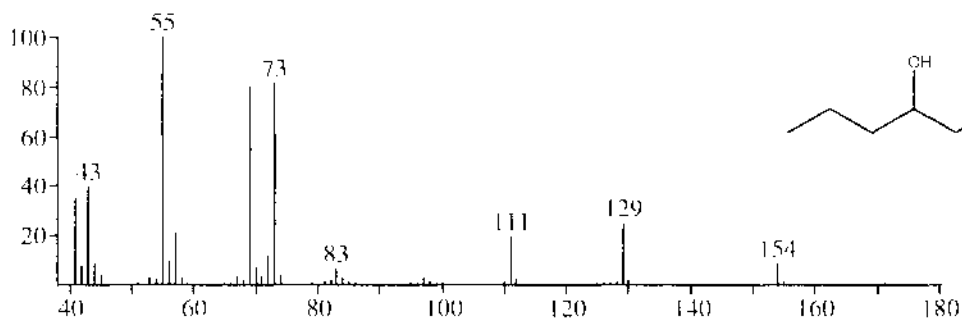
RT: 19.60 AI: 1286 KI: 1288 **Undecan-4-ol**

CAS#: 4272-06-4 MF: C₁₁H₂₄O FW: 172 MSD LIB#: 2013

CN: 4-undecanol

Synonyms: none

Source: Tokyo Kasai ex JJ Brophy



RT: 19.62 AI: 1287 KI: 1288 **Bornyl acetate**

CAS#: 76-49-3 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 314

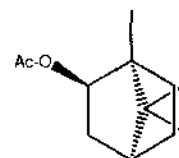
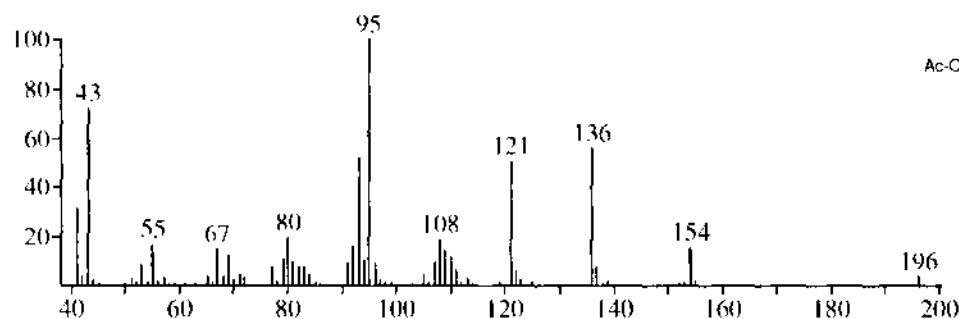
CN: trimethylbicyclo(2.2.1)heptan-2-ol <1.7,7-> acetate

Synonyms: none

Source: Aldrich Chem. ex T. Phillips, *Juniperus* leaf oils; 76.00% *Abies fragesii*,

p. 4, in: Aromatic Plants and Essential Constituents, Peace Book Co., Hong Kong (1993);

66.57% *Amomum villosum*; 59.00% *Juniperus rigida*



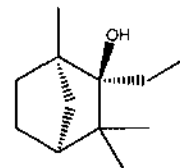
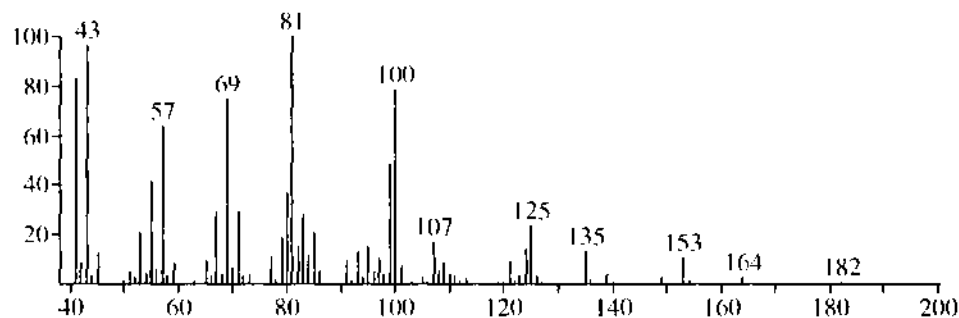
RT: 19.62 AI: 1287 KI: 1288 **Fenchol <2-ethyl-endo->**

CAS#: 137255-07-3 MF: C₁₂H₂₂O FW: 182 MSD LIB#: 715

CN: bicyclo(2.2.1)heptan-2-ol, 2-ethyl-1,3,3-trimethyl-, (1R-endo)-

Synonyms: none

Source: Bedoukian Res. ex Art Tucker



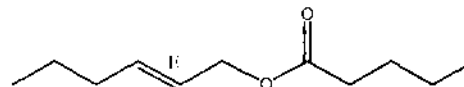
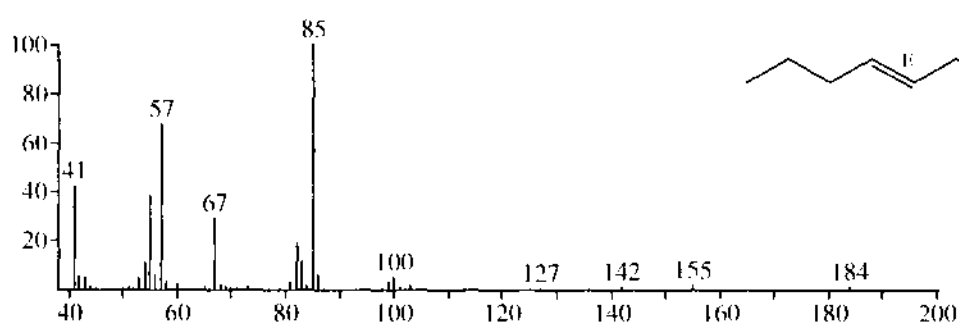
RT: 19.64 AI: 1287 KI: 1288 **Hexenyl valerate <(2E)->**

CAS#: 56922-74-8 MF: C₁₁H₂₀O₂ FW: 184 MSD LIB#: 1933

CN: pentanoic acid, 2-hexenyl ester, (2E)-

Synonyms: pentanoic acid, 2E-hexenyl ester

Source: Bedoukian Res. ex JJ Brophy



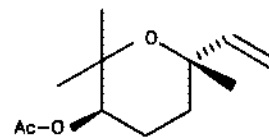
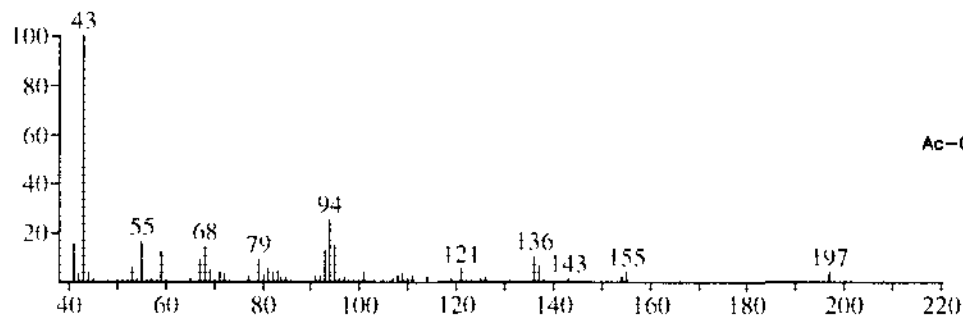
RT: 19.64 AI: 1287 KI: 1288 **Linalool oxide acetate <trans> (pyranoid)**

CAS#: 56752-50-2 MF: C₁₂H₂₀O₃ FW: 212 MSD LIB#: 251

CN: 2H-pyran-3-ol, 6-ethenyltetrahydro-2,2,6-trimethyl-,acetate, trans-

Synonyms: none

Source: *Artemisia vestita* oil ex P. Weyerstahl



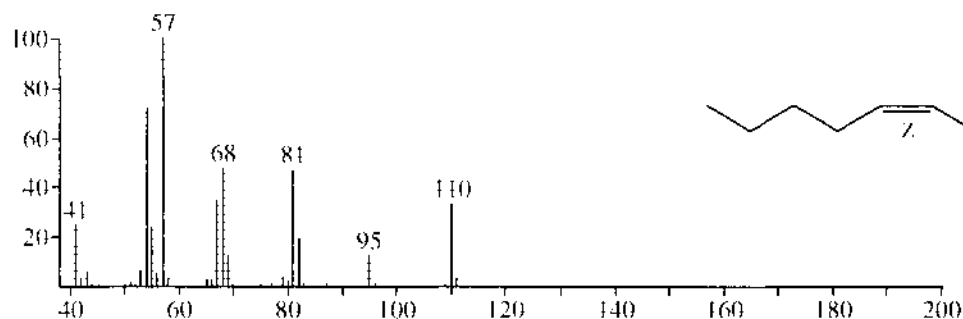
RT: 19.64 AI: 1287 KI: 1288 **Pearlate**

CAS#: 94134-03-9 MF: C₁₁H₂₀O₂ FW: 184 MSD LIB#: 2053

CN: 3-octen-1-ol, propanoate, (3Z)-

Synonyms: none

Source: Bedoukian Res.



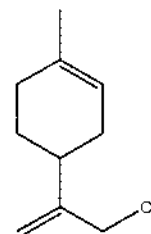
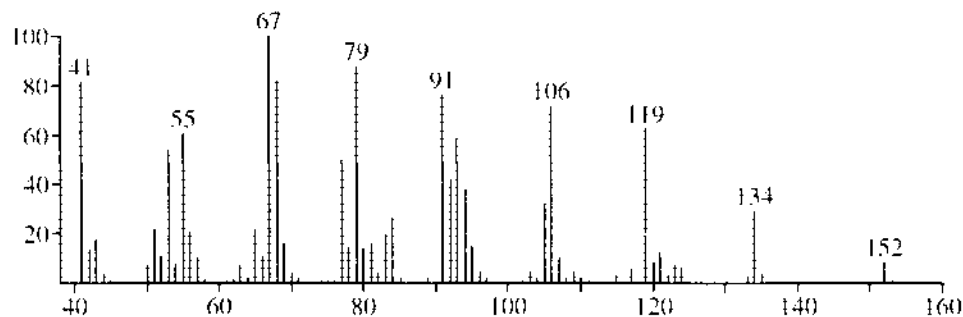
RT: 19.67 AI: 1288 KI: 1289 **Limonen-10-ol**

CAS#: 3269-90-7 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 1005

CN: 3-cyclohexene-1-ethanol, 4-methyl-β-methylene-

Synonyms: p-mentha-1,8(10)-dien-9-ol

Source: ref. cpd. ex P. Weyerstahl



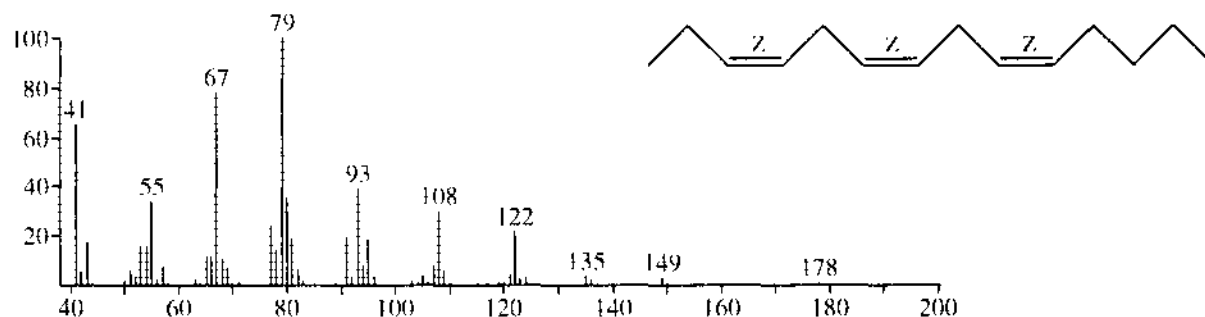
RT: 19.68 AI: 1288 KE: 1289 **Tetradecatriene <(3Z,6Z,9Z)->**

CAS#: 134896-10-9 MF: C₁₄H₂₄ FW: 192 MSD LIB#: 1908

CN: 3,6,9-tetradecatriene, (Z,Z,Z)-

Synonyms: none

Source: *Lomatium rigidum* oil ex Vasu Dev



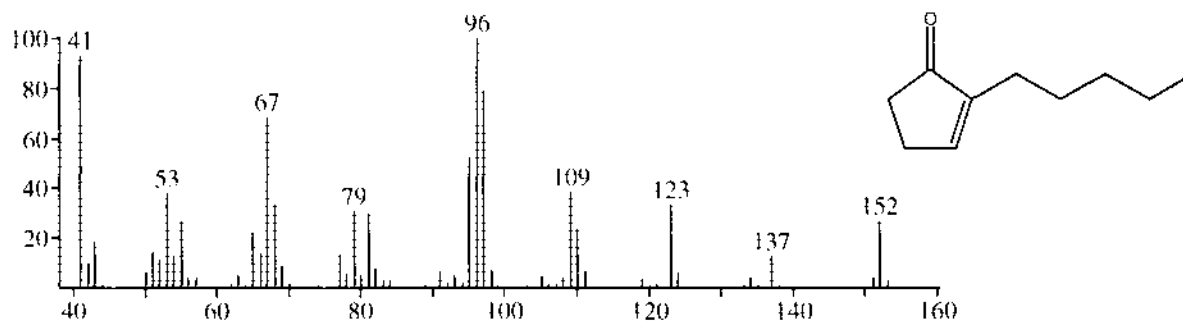
RT: 19.69 AI: 1288 KE: 1289 **Cyclopent-2-en-1-one <2-pentyl->**

CAS#: 25564-22-1 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 537

CN: 2-cyclopenten-1-one, 2-pentyl-

Synonyms: none

Source: Bedoukian Res. ex Art Tucker



RT: 19.70 AI: 1288 KE: 1290 **Lavandulyl acetate**

CAS#: 20777-39-3 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 1151

CN: 4-hexen-1-ol, 5-methyl-2-(1-methylethenyl)-, acetate

Synonyms: lavandulyl acetate

Source: *Nidorella resedifolia* ex P. Weyerstahl; 29.28% *Lavandula angustifolia* (Graves),

Perf. & Frag. 9:49(1984); 25.51% *Lavandula angustifolia* (Loddon pink);

21.51% *Lavandula angustifolia* (Jean Davis)



RT: 19.71 AI: 1289 KI: 1290 **Thymol**

CAS#: 89-83-8 ME: C₁₀H₁₄O FW: 150 MSD LIB#: 1504

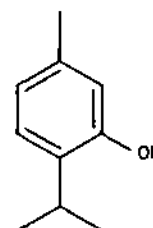
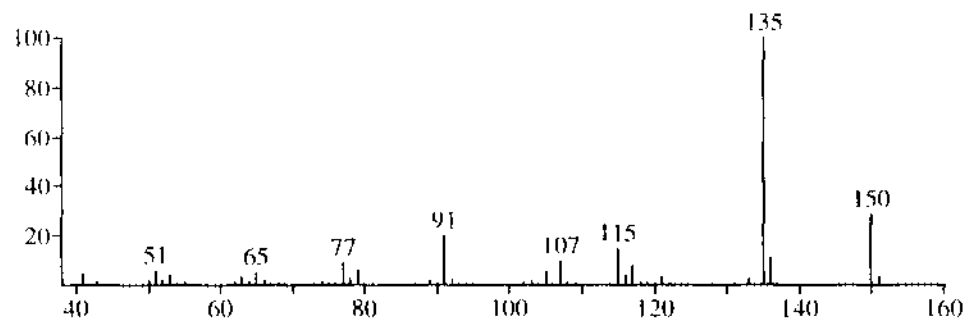
CN: 5-methyl-2-(1-methylethyl)phenol

Synonyms: p-cymen-3-ol; 5-Methyl-2-isopropyl-1-phenol; 1-Methyl-3-hydroxy-4-iso-propylbenzene;
3 p-Cymenol; 3-hydroxy-p-Cymene; Thyme Camphor; m-Thymol

Source: distilled thyme leaves (Schilling Co.), RP Adams #5426; 85.60% *Origanum vulgare*.

p. 163, in: Prog. in Ess. Oil Research, E.-J. Brunke, Ed., Gruyter Publ., Berlin (1986);

85.20% *Plectranthus tenuiflorus*; 79.80% *Coleus aromaticus*



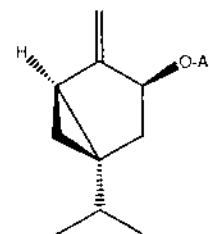
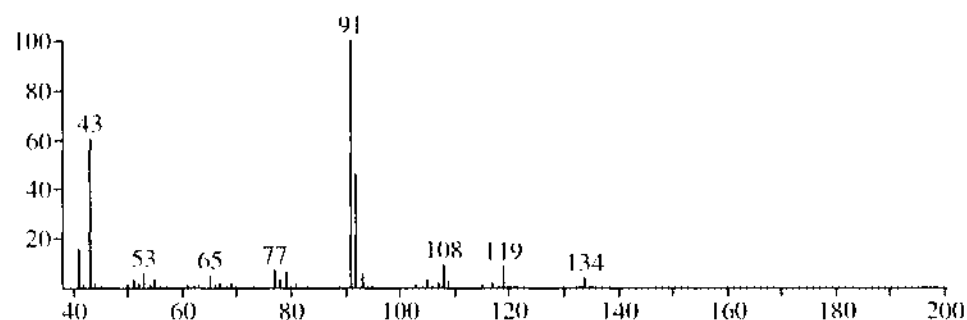
RT: 19.73 AI: 1289 KI: 1290 **Sabinyl acetate <trans> (IPP vs. Acetyl)**

CAS#: 53833-85-5 ME: C₁₂H₁₈O₂ FW: 194 MSD LIB#: 1368

CN: bicyclo(3.1.0)hexan-3-ol, 4-methylene-1-(1-methylethyl)-, acetate, (1S-(1α,3β,5α))-

Synonyms: cis-sabinyl acetate (IPP vs. Me gp., traditional name)

Source: ref. cpd. ex E. von Rudloff



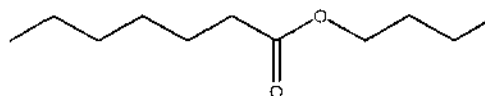
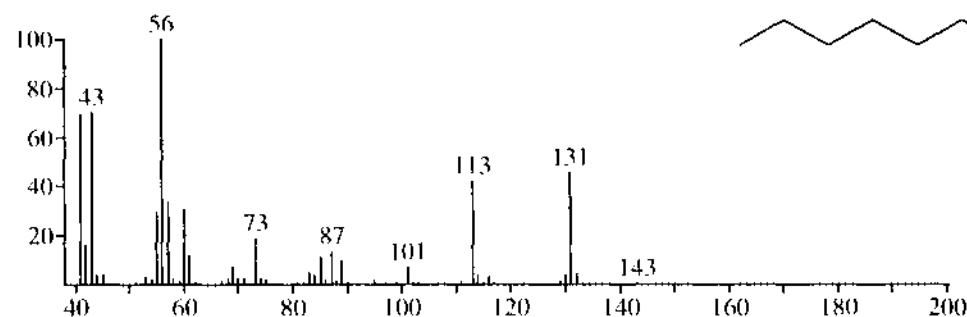
RT: 19.74 AI: 1289 KI: 1290 **Butyl heptanoate**

CAS#: 5454-28-4 ME: C₁₁H₂₂O₂ FW: 186 MSD LIB#: 329

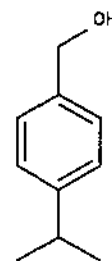
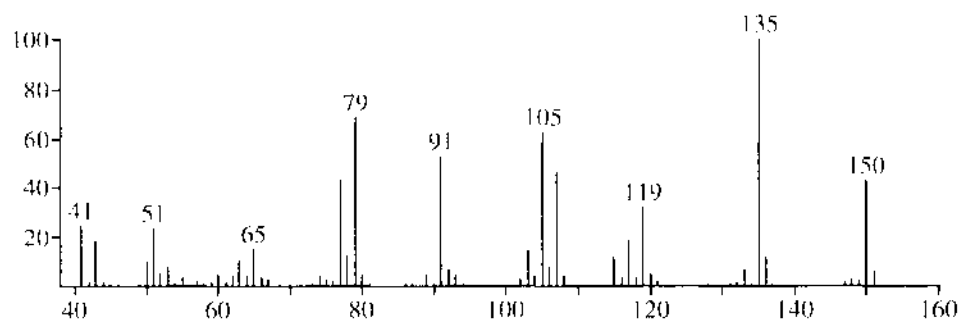
CN: heptanoic acid, butyl ester

Synonyms: none

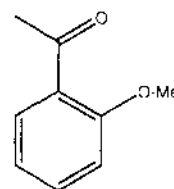
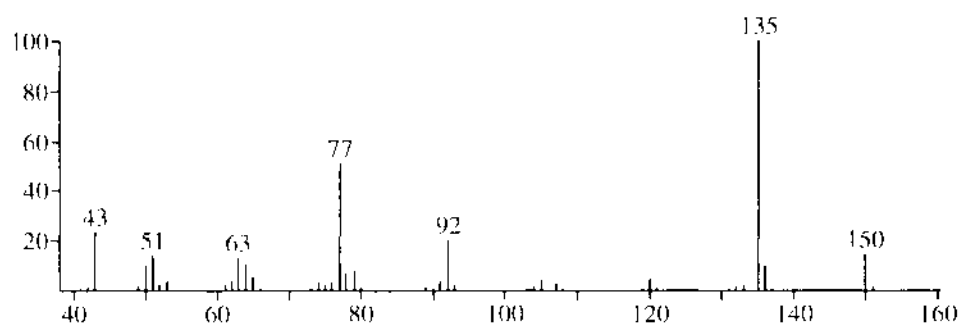
Source: Aldrich Chem.



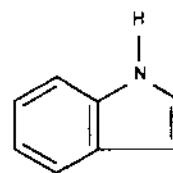
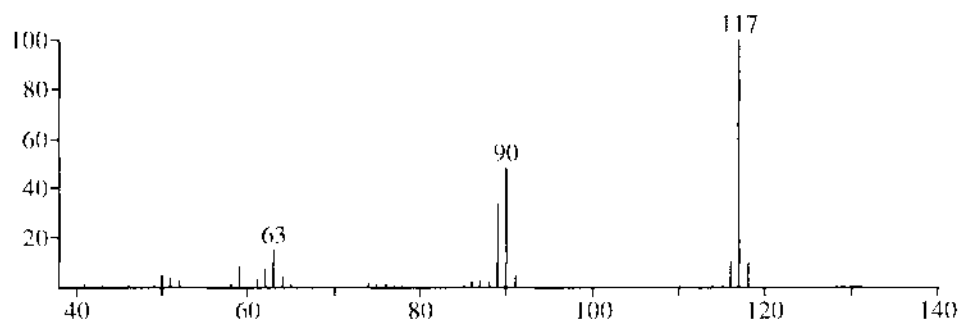
RT: 19.74 AI: 1289 KI: 1290 **Cymen-7-ol <p>**
 CAS#: 536-60-7 MF: C₁₀H₁₄O FW: 150 MSD LIB#: 546
 CN: benzenemethanol, 4-(1-methylethyl)-
 Synonyms: cuminal alcohol, cuminol
 Source: ref. epd. ex E. von Rudloff



RT: 19.76 AI: 1290 KI: 1291 **Acetanisole <o>**
 CAS#: 579-74-8 MF: C₉H₁₀O₂ FW: 150 MSD LIB#: 7
 CN: o-methoxyacetophenone
 Synonyms:
 Source: Aldrich



RT: 19.76 AI: 1290 KI: 1291 **Indole**
 CAS#: 120-72-9 MF: C₈H₇N FW: 117 MSD LIB#: 840
 CN: 1H-indole
 Synonyms: 1-araindene; 1-benzazole; ketole; 2,3 benzopyrrole
 Source: MCB Chem, ex H. Hills: 25.61% *Oenothera odorata*,
 p. 46, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong(1993);
 19.30% *Lilium candidum*; 17.50% *Coronilla emerus*



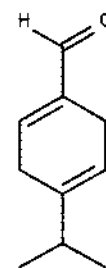
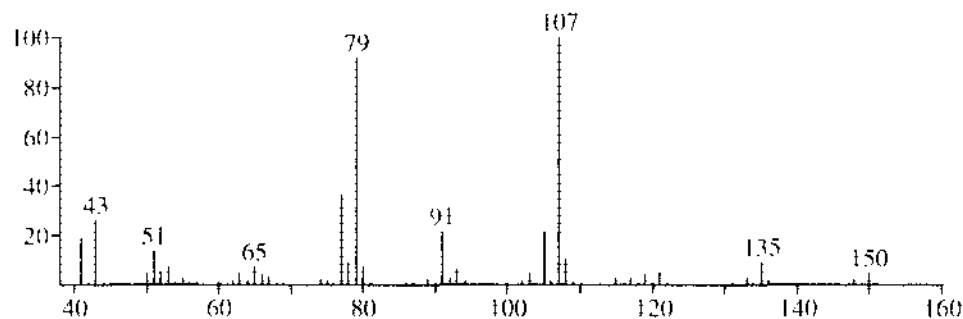
RT: 19.76 AE: 1290 KI: 1291 **Terpinen-7-al <γ>**

CAS#: 22580-90-1 ME: C₁₀ H₁₄ O FW: 150 MSD LIB#: 1340

CN: 1,4-cyclohexadien-1-carboxaldehyde, 4-(1-methylethyl)-

Synonyms: 1,4-p-menthadien-7-al

Source: *Polyophium involucratum* oil ex ICC Scheffer



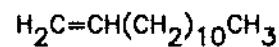
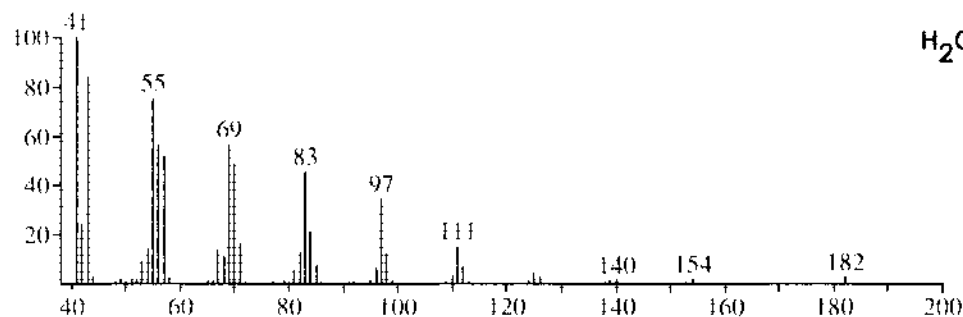
RT: 19.77 AE: 1290 KI: 1291 **Tridecene <1>**

CAS#: 2437-56-1 ME: C₁₃ H₂₆ FW: 182 MSD LIB#: 899

CN: 1-tridecene

Synonyms: none

Source: ref. epd. ex E. von Rudloff; 2.00% *Pectis elongata*, JEOR 7:63(1995);
0.80% *Vitis vinifera* (flower)



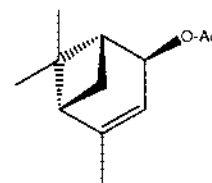
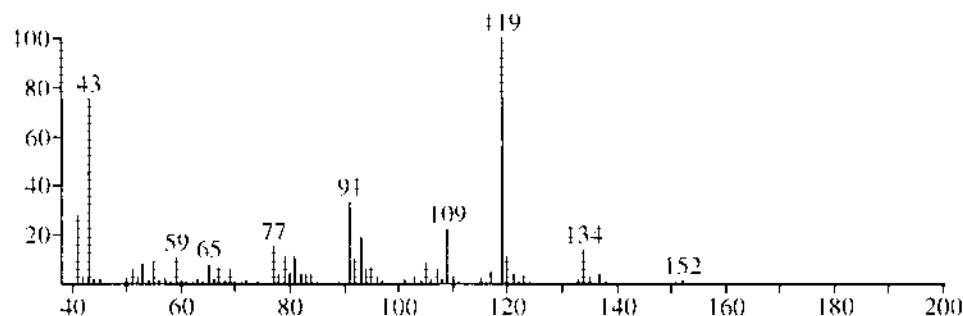
RT: 19.83 AE: 1291 KI: 1292 **Verbenyl acetate <trans>**

CAS#: 1203-21-0 ME: C₁₂ H₁₈ O₂ FW: 194 MSD LIB#: 1548

CN: bicyclo(3.1.1)hept-3-en-2-ol, 4,6,6-trimethyl-, acetate, (1α,2α,5α)-

Synonyms: 2-pinen-4-ol acetate, trans-

Source: acetylation of verbenol(5531) 0.90% *Juniperus martinensis*, JEOR 2:99(1990);
0.46% *Angelica archangelica*; 0.10% *Achillea wilhelmsii*



RT: 19.84 AI: 1292 KI: 1292 **Prenyl hexanoate**

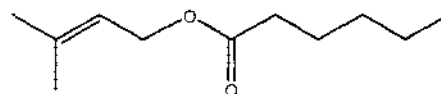
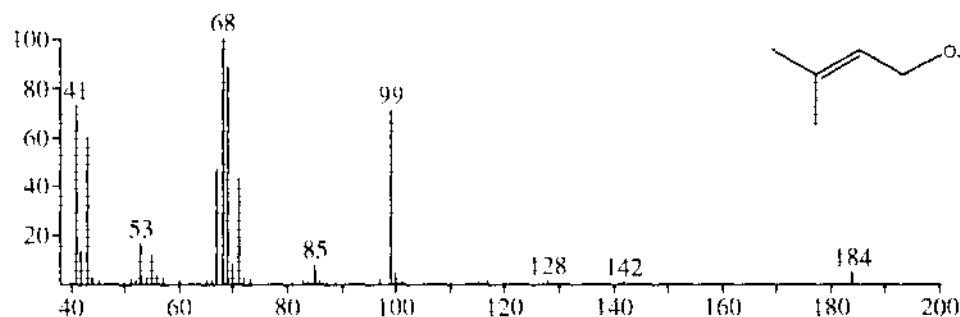
CAS#: 76649-22-4 MF: C₁₁H₂₀O₂ FW: 184 MSD LIB#: 2051

CN: hexanoic acid, 3-methyl-2-butenyl ester

Synonyms: none

Source: Bedoukian Res.: 0.20% *Cymbopogon martini*, 11th Int. Cong. of Ess. Oils, 3:89(1989).

New Delhi, India



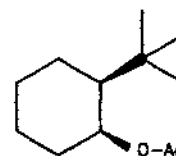
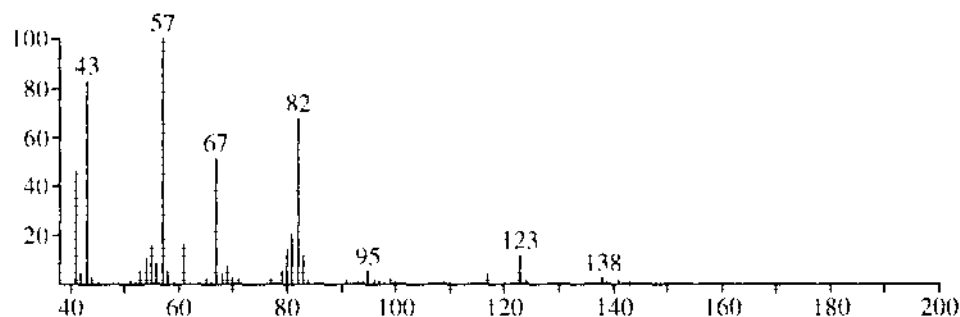
RT: 19.85 AI: 1292 KI: 1293 **Cyclohexanol acetate <cis-2-tert-butyl->**

CAS#: 20298-69-5 MF: C₁₂H₂₂O₂ FW: 198 MSD LIB#: 541

CN: cyclohexanol, 2-(1,1-dimethylethyl)-, acetate, cis-

Synonyms: none

Source: ref. cpd. ex Art Tucker



RT: 19.86 AI: 1292 KI: 1293 **Decadienal <(2E,4Z)->**

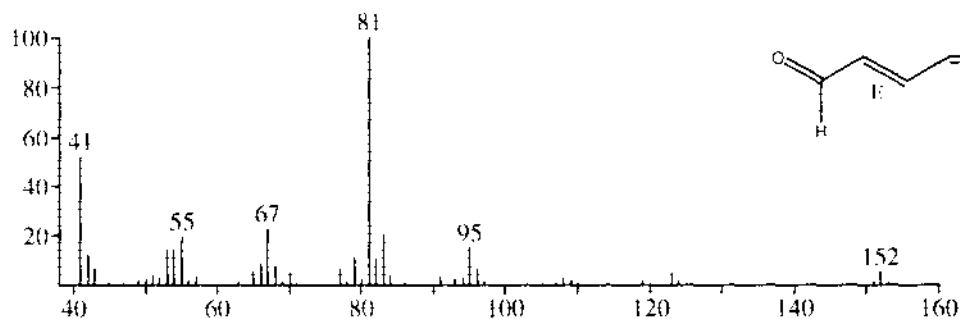
CAS#: 25152-83-4 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 563

CN: 2,4-decadienal, (E,Z)-

Synonyms: 2-trans,4-cis-decadienal

Source: ref. cpd. ex Art Tucker: 1.32% *Nicotiana forgetiana* (flower), JEOR 7:265(1995);

1.00% *Rhus coriaria*; 0.40% *Hibiscus abelmoschus* (seed)



RT: 19.90 AE: 1293 KI: 1294 **Undecanone <2->**

CAS#: 112-12-9 ME: C₁₁H₂₂O FW: 170 MSD LIB#: 1525

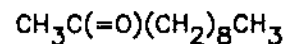
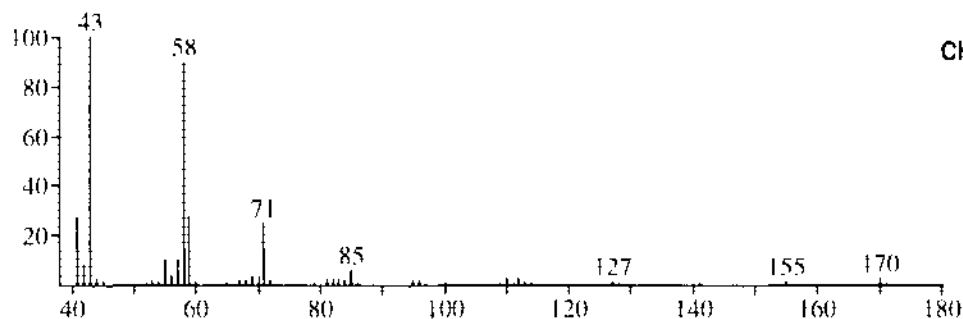
CN: 2-undecanone

Synonyms: 2-hendecanone

Source: ref. epd. ex Art Tucker; 90.42% *Ruta graveolens*, p. 255, in: Essential Oil

Analysis Capillary Gas Chromatography & Carbon-13 NMR Spectroscopy.

J. Wiley & Sons Publ., Chichester (1982); 6.90% *Pistacia lentiscus* (fruit); 4.80% *Juniperus rigida*



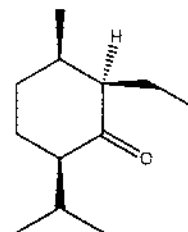
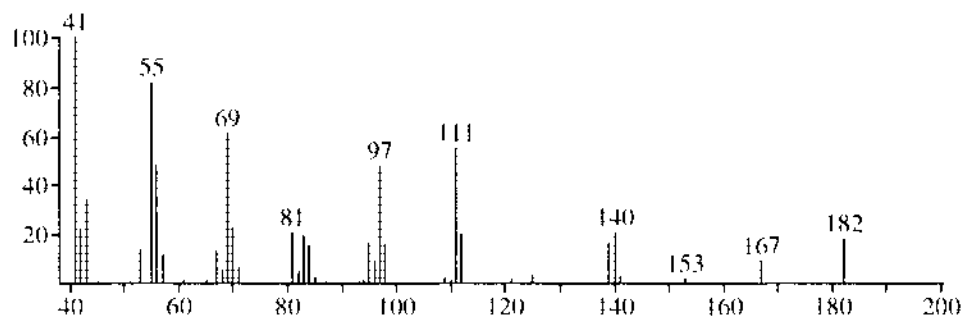
RT: 19.92 AE: 1293 KI: 1294 **Isomenthone <2-ethyl->**

CAS#: 000-00-0 ME: C₁₂H₂₂O FW: 182 MSD LIB#: 505

CN: not assigned

Synonyms: none

Source: *Cupressus bakeri* oil fraction ex Larry Cool



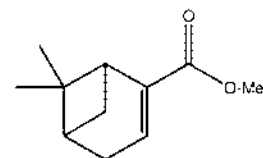
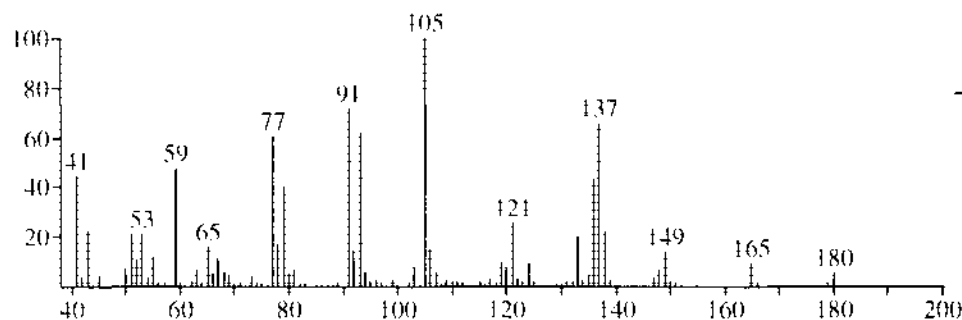
RT: 19.92 AE: 1293 KI: 1294 **Methyl myrtenate**

CAS#: 30649-97-9 ME: C₁₁H₁₆O₂ FW: 180 MSD LIB#: 1666

CN: bicyclo(3.1.1)hept-2-ene-2-carboxylic acid, 6,6-dimethyl-, methyl ester

Synonyms: myrtenic acid methyl ester

Source: *Darwinia citriodora* oil ex Ian Southwell



RT: 19.92 AI: 1293 KI: 1293 **Undecanol <3->**

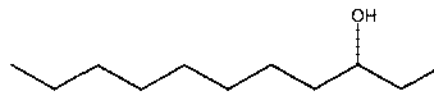
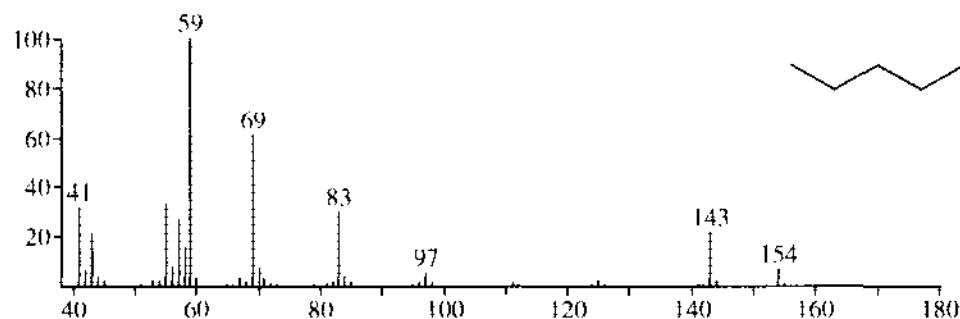
CAS#: 6929-08-4 MF: C₁₁H₂₄O FW: 172 MSD LIB#: 2004

CN: 3-undecanol

Synonyms: none

Source: Tokyo Kasai ex JJ Brophy; 0.94% *Ruta chalepensis*, JEOR 8:413(1996);

0.51% *Fissifigma shangtzeense* (flower extract)



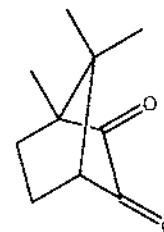
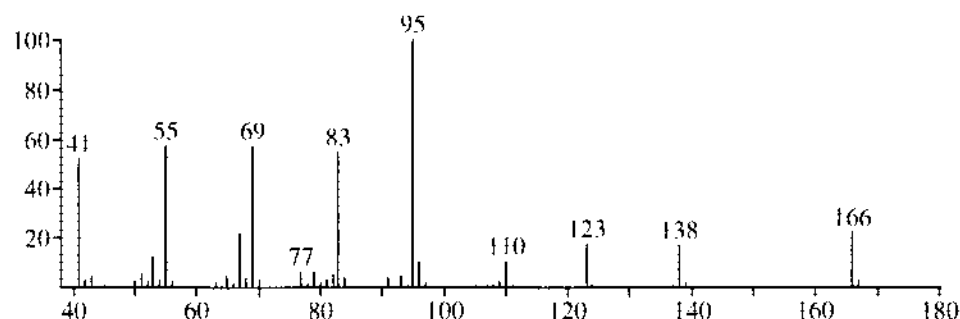
RT: 19.93 AI: 1294 KI: 1294 **Camphorquinone**

CAS#: 10373-78-1 MF: C₁₀H₁₄O₂ FW: 166 MSD LIB#: 1994

CN: bicyclo(2.2.1)heptane-2,3-dione, 1,7,7-trimethyl-

Synonyms: none

Source: Aldrich Chem. ex JJ Brophy



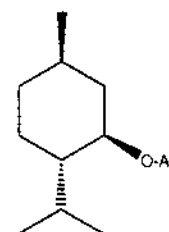
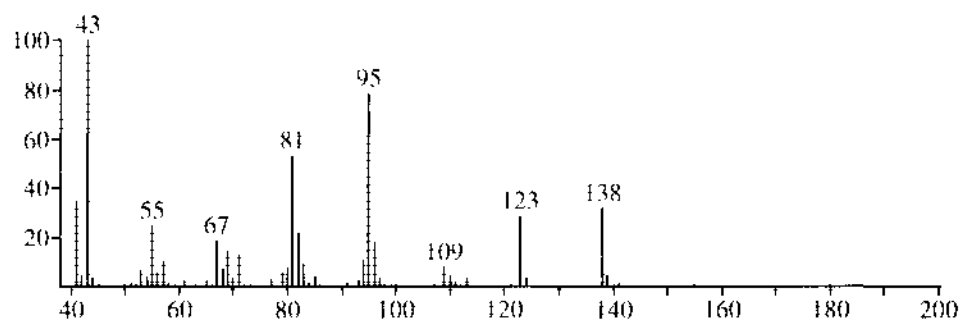
RT: 19.93 AI: 1294 KI: 1295 **Menthyl acetate**

CAS#: 89-48-5 MF: C₁₂H₂₂O₂ FW: 198 MSD LIB#: 1081

CN: menthyl-2-(1-methylethyl)cyclohexanol<5-> acetate

Synonyms: menthol, acetate, cis-1,3,trans-1,4-

Source: SCM Chem. ex H. Hills



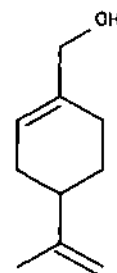
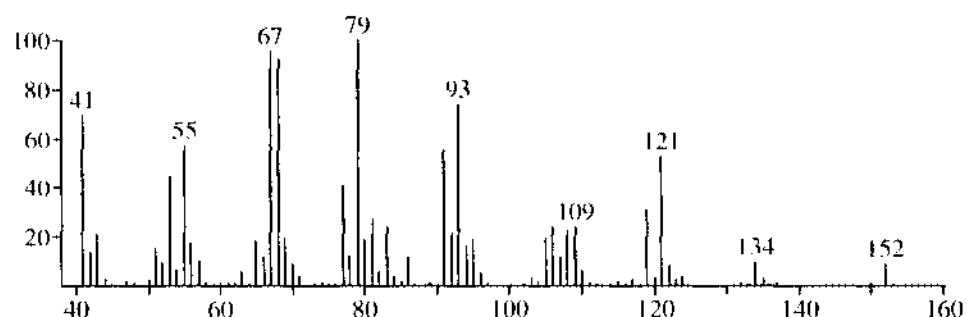
RT: 19.94 AI: 1294 KI: 1295 **Perilla alcohol**

CAS#: 536-59-4 ME: C₁₀H₁₆O FW: 152 MSD LIB#: 1265

CN: 1-cyclohexene-1-methanol, 4-(1-methylethenyl)-

Synonyms: p-mentha-1,8-dien-7-ol

Source: *Perilla* oil ex H² ex R. Trenkle



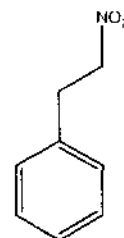
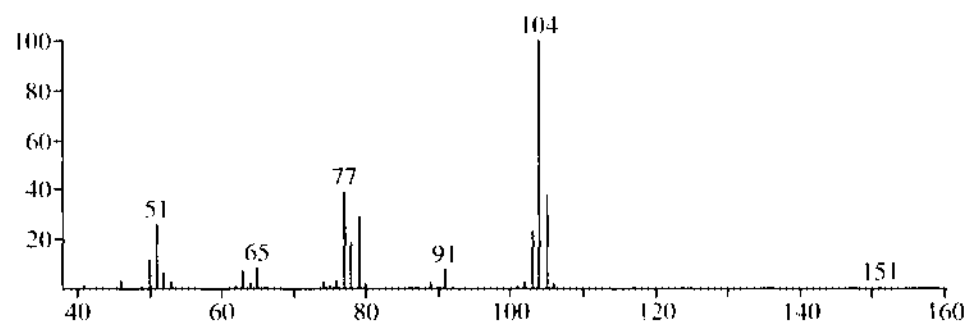
RT: 19.94 AI: 1294 KI: 1295 **Phenyl ethane <1-nitro-2->**

CAS#: 6125-24-2 ME: C₈H₉NO₂ FW: 151 MSD LIB#: 1160

CN: benzene, (2-nitroethyl)-

Synonyms: none

Source: *Anibia canellial* oil ex P. Richomme



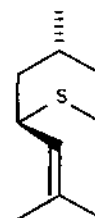
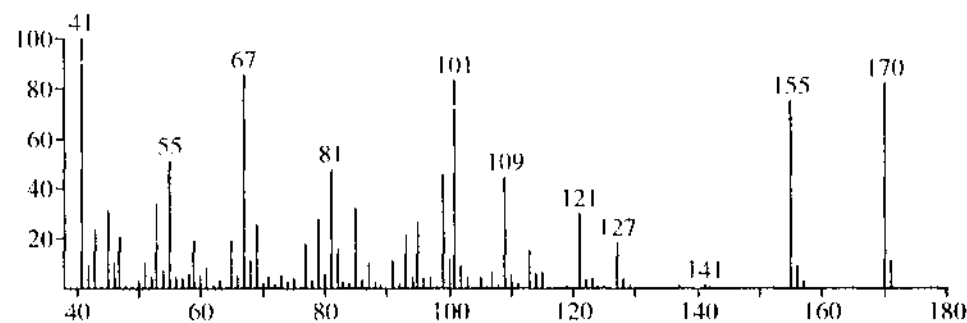
RT: 19.95 AI: 1294 KI: 1295 **Thio rose oxide <trans->**

CAS#: 000-00-0 ME: C₁₀H₁₈S FW: 170 MSD LIB#: 1479

CN: not assigned

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl



RT: 19.96 AI: 1294 KI: 1295 **Menth-1-en-9-ol <p>**

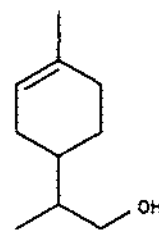
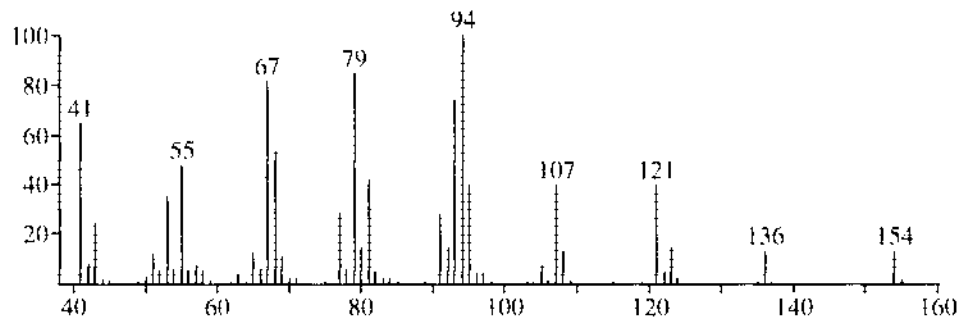
CAS#: 18479-68-0 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 1061

CN: 3-cyclohexene-1-ethanol, β ,4-dimethyl-

Synonyms: none

Source: ref. cpd. ex E. von Rudloff; 0.01% *Citrus bergamia*.

Seifen-Oele-Fette-Wachse 107:363(1981); 0.01% *Citrus deliciosa*



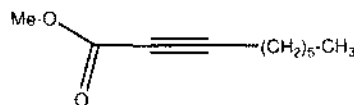
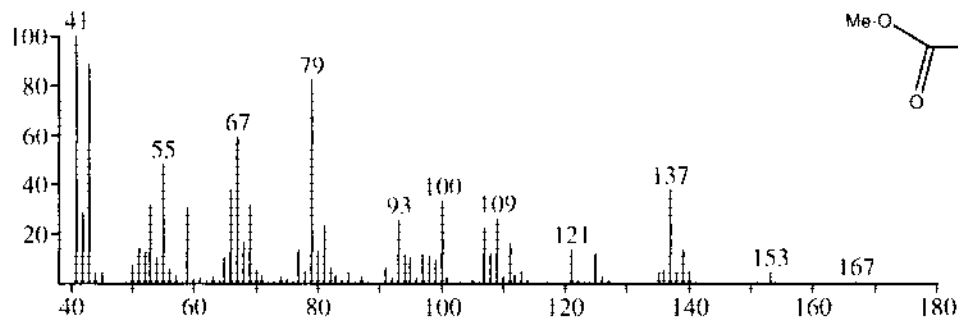
RT: 19.98 AI: 1295 KI: 1295 **Methyl octine carbonate**

CAS#: 111-80-8 MF: C₁₀H₁₆O₂ FW: 168 MSD LIB#: 2152

CN: 2-nonynoic acid, methyl ester

Synonyms: none

Source: Bedoukian Res.



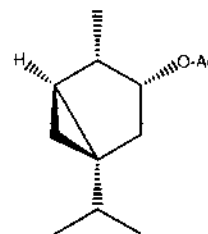
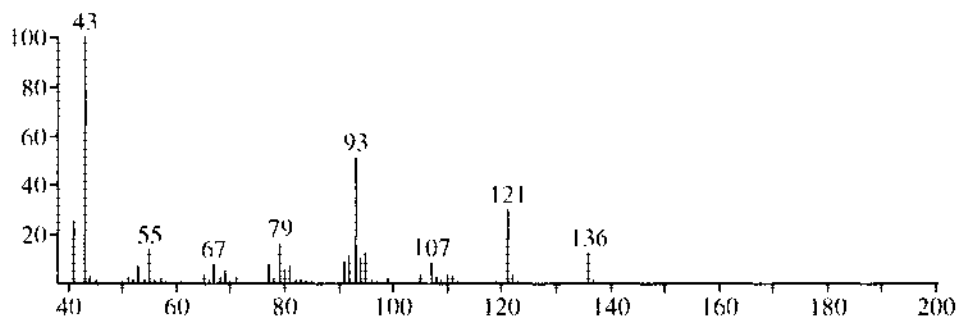
RT: 19.98 AI: 1295 KI: 1295 **Thujanol acetate <3>**

CAS#: 72747-24-1 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 1487

CN: bicyclo(3.1.0)hexan-3-ol, 4-methyl-1-(1-methylethyl)-, acetate, (1 α ,3 α ,4 α ,5 α)-

Synonyms: neoisothujanyl acetate, 3-

Source: acetylation of thujanol mixture(6421)



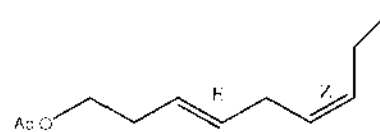
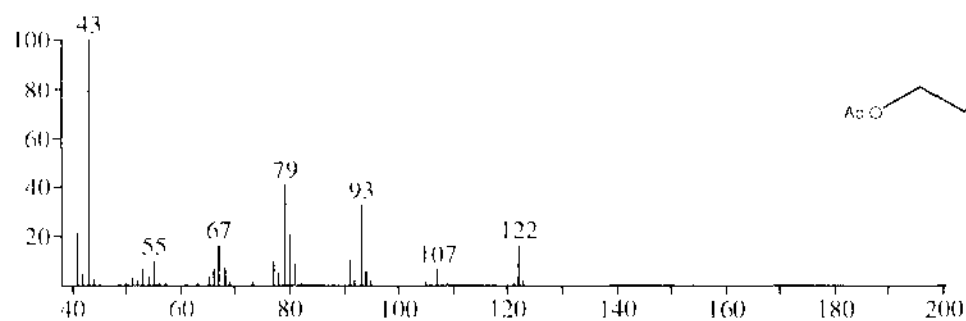
RT: 20.05 AI: 1296 KI: 1297 **Nonadienol acetate <(3E,6Z)->**

CAS#: 211323-05-6 MF: C₁₁H₁₈O₂ FW: 182 MSD LIB#: 2134

CN: 3,6-nonadien-1-ol, acetate,(3E,6Z)-

Synonyms: none

Source: Bedoukian Res.



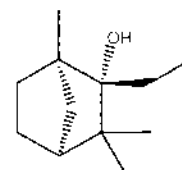
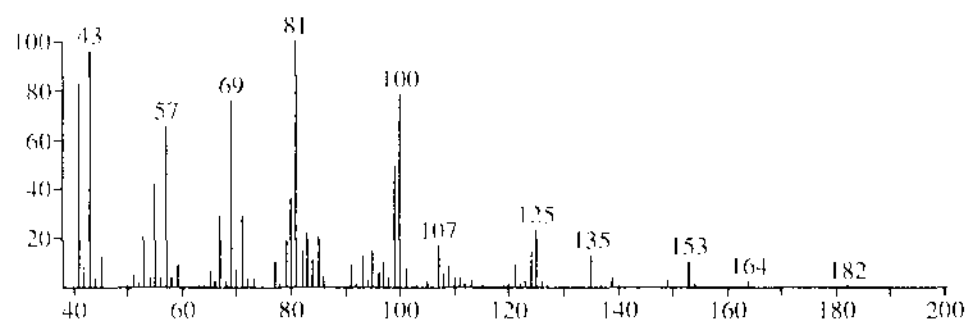
RT: 20.08 AI: 1297 KI: 1297 **Fenchol <2-ethyl-exo->**

CAS#: 137255-11-9 MF: C₁₂H₂₂O FW: 182 MSD LIB#: 714

CN: bicyclo(2.2.1)heptan-2-ol, 2-ethyl-1,3,3-trimethyl-, (1R-exo)-

Synonyms: none

Source: Bedoukian Res. ex Art Tucker



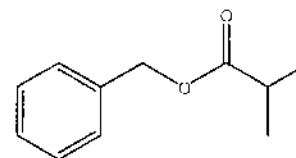
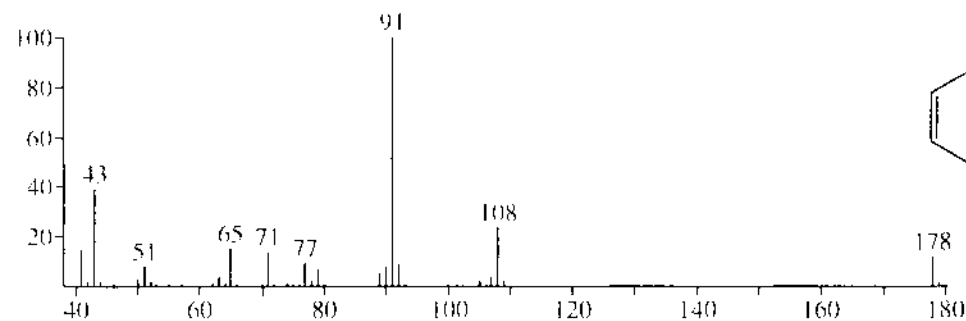
RT: 20.09 AI: 1297 KI: 1297 **Benzyl isobutanoate**

CAS#: 103-28-6 MF: C₁₁H₁₄O₂ FW: 178 MSD LIB#: 291

CN: propanoic acid, 2-methyl-, phenylmethyl ester

Synonyms: benzyl isobutyrate

Source: Aldrich Chem.



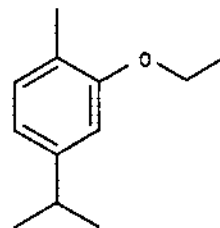
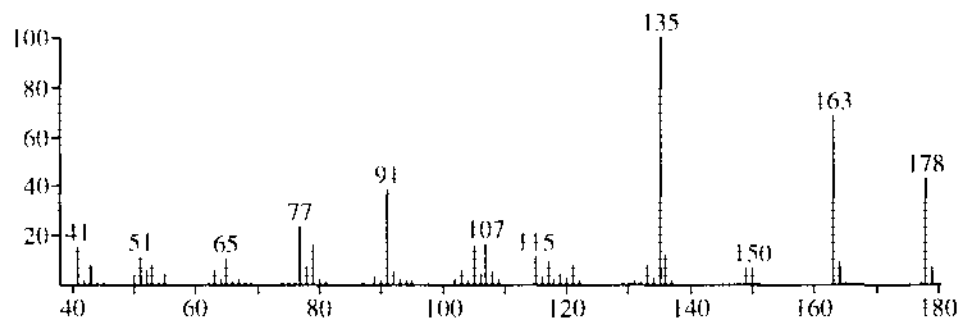
RT: 20.10 AI: 1297 KI: 1298 **Carvacrol, ethyl ether**

CAS#: 4732-13-2 MF: C₁₂H₁₈O FW: 178 MSD LIB#: 366

CN: benzene, 2-ethoxy-1-methyl-4-(1-methylethyl)-

Synonyms: carvacryl ethyl ether; phenetrole, 5-isopropyl-2-methyl-

Source: ref. cpd. ex Art Tucker



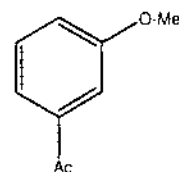
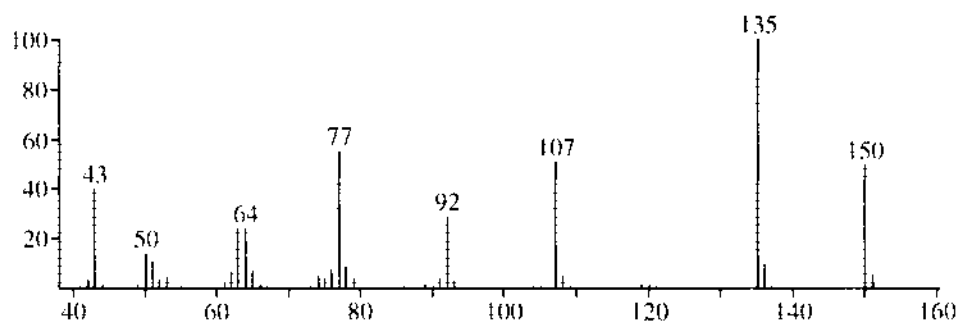
RT: 20.11 AI: 1298 KI: 1298 **Acetophenone <3'-methoxy->**

CAS#: 586-37-8 MF: C₉H₁₀O₂ FW: 150 MSD LIB#: 11

CN: ethanone, 1-(3-methoxyphenyl)-

Synonyms: acetanisole, meta-

Source: Aldrich Chem.



RT: 20.11 AI: 1298 KI: 1298 **Azulene**

CAS#: 275-51-4 MF: C₁₀H₈ FW: 128 MSD LIB#: 262

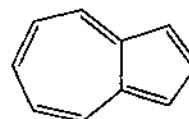
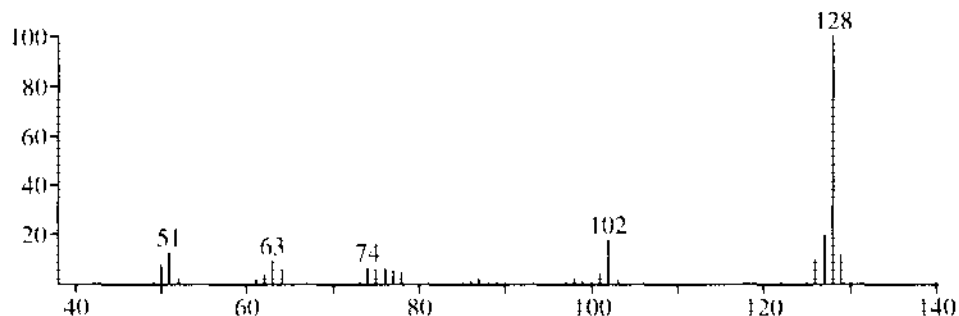
CN: cyclopentacycloheptene

Synonyms: none

Source: Aldrich Chem. ex H. Hills; 2.75% *Dendrobium chrysotoxum* (flower),

p. 111, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong(1993);

0.97% *Artemisia macrocephala*; 0.45% *Michelia yunnanensis* (flower)



RT: 20.11 AI: 1298 KI: 1298 **Geranyl formate**

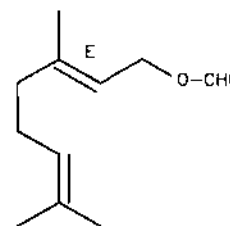
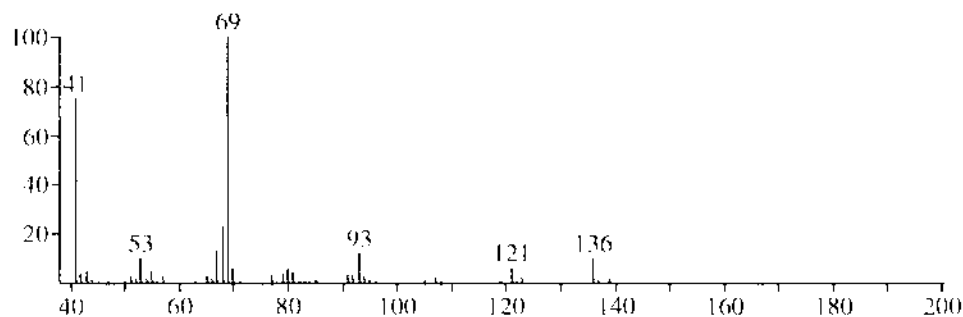
CAS#: 105-86-2 MF: C₁₁H₁₈O₂ FW: 182 MSD LIB#: 732

CN: 2,6-octadien-1-ol, 3,7-dimethyl-, formate, (E)-

Synonyms: geraniol formate

Source: Firmenich ex AF Thomas; 9.65% *Pelargonium graveolens*, JEOR 2:73(1990);

5.00% *Cymbopogon martini*; 4.20% *Cymbopogon nardus*



RT: 20.11 AI: 1298 KI: 1298 **Pinocarvyl acetate <trans>**

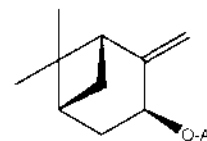
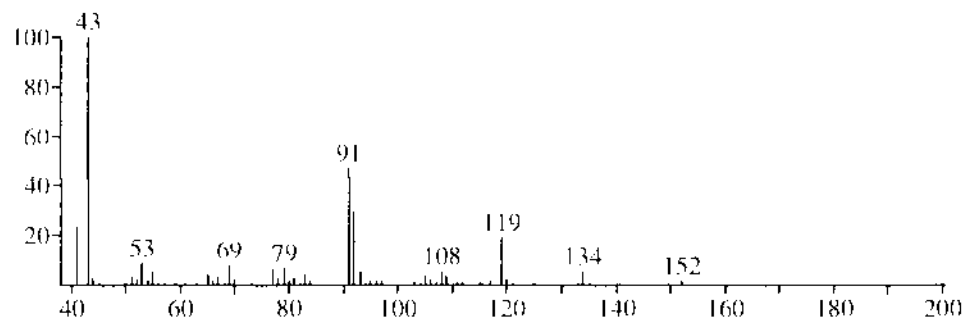
CAS#: 1686-15-3 MF: C₁₂H₁₈O₂ FW: 194 MSD LIB#: 1311

CN: bicyclo(3.1.1)heptan-3-ol, 6,6-dimethyl-2-methylene-, acetate, (1a,3a,5a)-

Synonyms: 2(10) pinen-3-ol, acetate, trans-

Source: ref. cpd. ex E. von Rudloff; 49.00% *Egletes viscosa*, JEOR 4:639(1992);

1.00% *Eucalyptus botryoides*; 0.24% *Acorus calamus*



RT: 20.12 AI: 1298 KI: 1298 **Carquejol acetate**

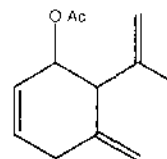
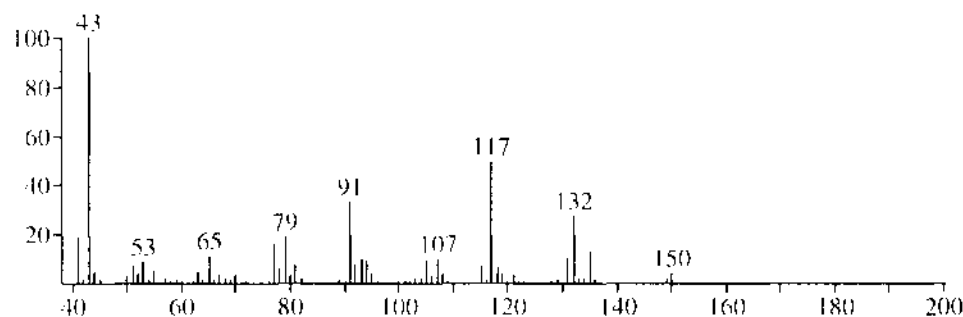
CAS#: 32151-09-0 MF: C₁₂H₁₆O₂ FW: 192 MSD LIB#: 1290

CN: 2-cyclohexen-1-ol, 5-methylene-6-(1-methylethenyl)-, acetate, (1S-cis)-

Synonyms: o-mentha-1(7),4,8-trien-3-ol, acetate (2R,3S)-

Source: *Phoebe* oil ex P. Weyerstahl; 42.82% *Baccharis porosa*, FFJ 9:179(1994);

2.10% *Phoebe porosa*



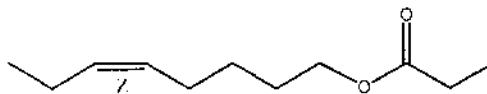
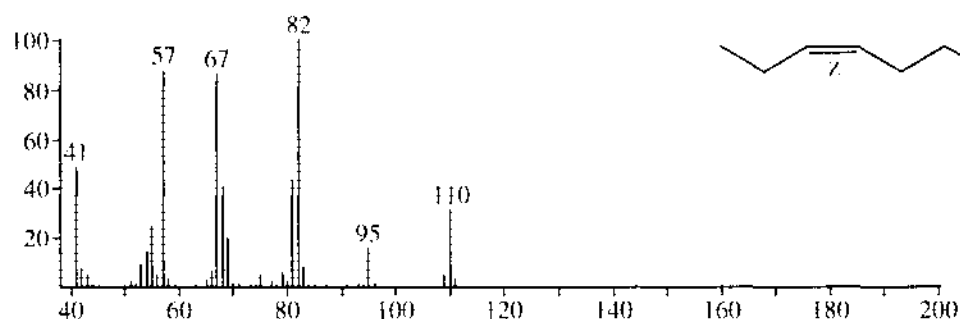
RT: 20.13 AI: 1298 KI: 1298 **Octenol propanoate <(5Z)->**

CAS#: 196109-18-9 MF: C₁₁H₂₀O₂ FW: 184 MSD LIB#: 2056

CN: 5-octen-1-ol, propanoate, (5Z)-

Synonyms: none

Source: Bedoukian Res.



RT: 20.14 AI: 1298 KI: 1299 **Carvacrol**

CAS#: 499-75-2 MF: C₁₀H₁₄O FW: 150 MSD LIB#: 1507

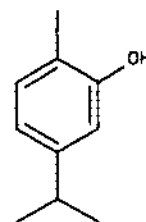
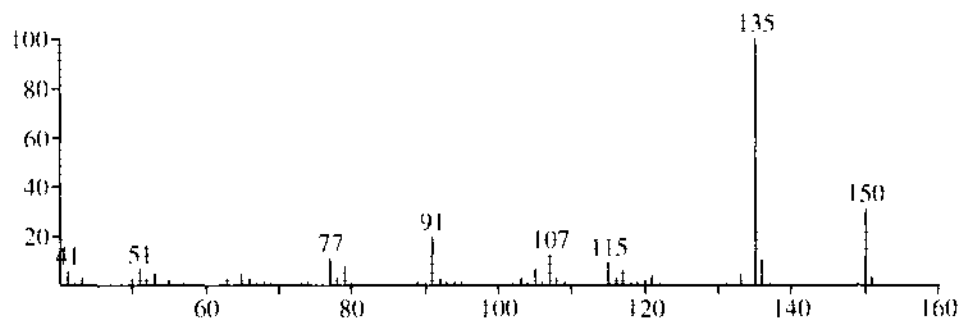
CN: 2-methyl-5-(1-methylethyl) phenol

Synonyms: p-cymen-2-ol; antioxine; isothymol; 2-hydroxy-p-cymene; isopropyl-o-cresol

Source: distilled from Thyme leaves, RP Adams #5426 ex Schilling; *Oreganum*; *Marjoram*;

86.33% *Coridothymus capitatus*, JEOR 4:417(1992); 78.85% *Majorana hortensis*;

71.40% *Thymbra spicata*



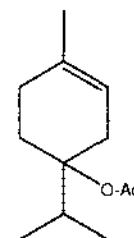
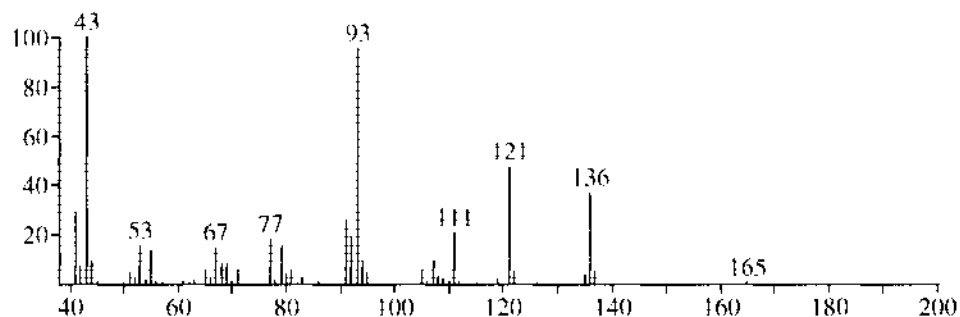
RT: 20.17 AI: 1299 KI: 1299 **Terpinen-4-ol acetate**

CAS#: 4821-04-9 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 1560

CN: 3-cyclohexen-1-ol, 4-methyl-1-(1-methylethyl)-, acetate

Synonyms: p-menth-1-en-4-ol acetate

Source: *Cupressus lusitanica* oil, Portugal, RP Adams #7123



RT: 20.18 AI: 1299 KI: 1299 **Methyl cinnamate <(Z)->**

CAS#: 19713-73-6 MF: C₁₀H₁₀O₂ FW: 162 MSD LIB#: 266

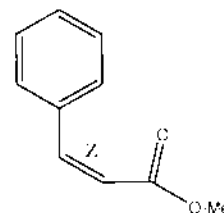
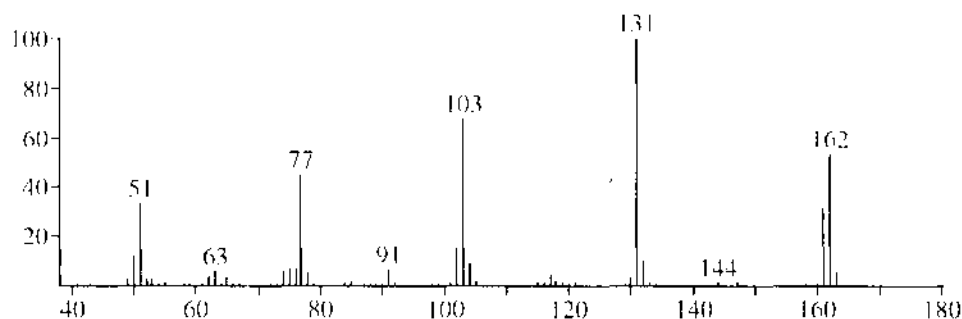
CN: 2-propenoic acid, 3-phenyl-, methyl ester, (Z)-

Synonyms: cis-cinnamic acid, methyl ester

Source: distillation of basil leaves ex McCormick Co., RP Adams #5435:

9.40% *Ocimum basilicum*, FFJ 1:53(1986); 0.78% *Ocimum basilicum* (CO₂-extract);

0.41% *Artemisia judaica*



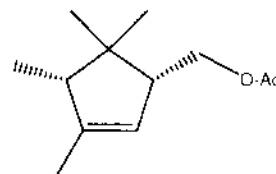
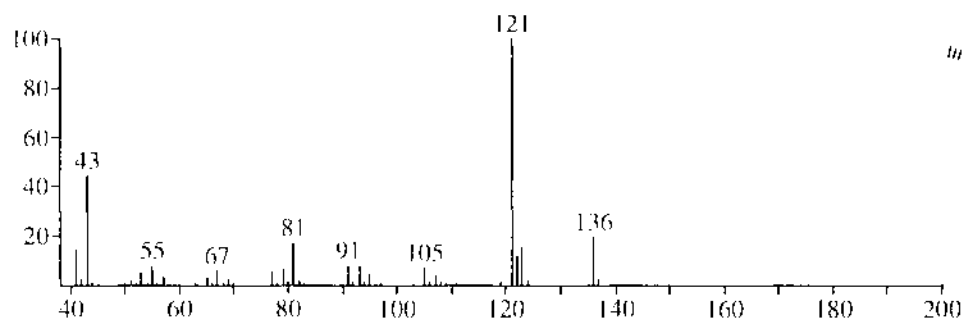
RT: 20.18 AI: 1299 KI: 1299 **Necrodol acetate <cis-α->**

CAS#: 709026-15-3 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 2097

CN: 2-cyclopentene-1-methanol, 3,4,5,5-tetramethyl-, acetate, cis-

Synonyms: none

Source: *Lavandula luisieri*, ex Nicolas Baldovini



RT: 20.18 AI: 1299 KI: 1299 **Undec-10-en-1-al**

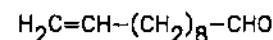
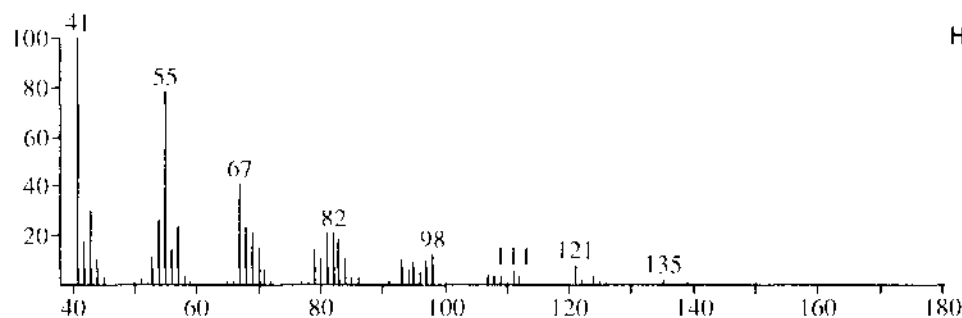
CAS#: 112-45-8 MF: C₁₁H₂₀O FW: 168 MSD LIB#: 1519

CN: 10-undecenal

Synonyms: none

Source: Givaudan ex Jian-Qin Cu, Kunming; 0.10% *Coriandrum sativum*.

J. Ag. Food Chem. 38:2054(1990)



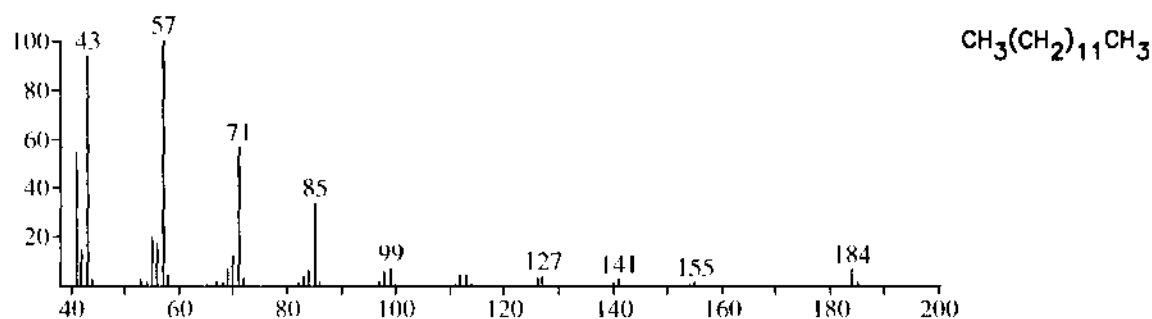
RT: 20.19 AI: 1300 KI: 1300 **Tridecane <n->**

CAS#: 629-50-5 MF: C₁₃H₂₈ FW: 184 MSD LIB#: 93

CN: tridecane

Synonyms: none

Source: Allech Assoc.: 0.70% *Brassica juncea* (flower). Nippon Nogeikagaku Kaishi 54:99(1980);
0.50% *Hypericum perforatum*; 0.50% *Brassica juncea* (leaves & stem)



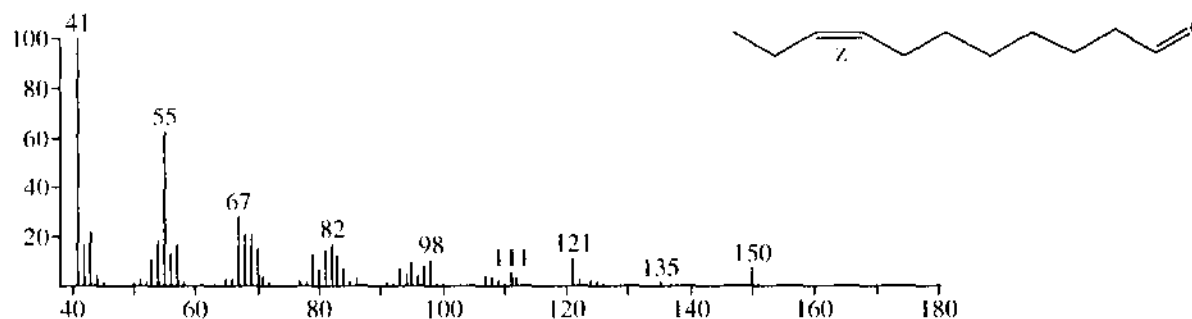
RT: 20.20 AI: 1300 KI: 1300 **Undecenal <(8Z)->**

CAS#: 147159-49-7 MF: C₁₁H₂₀O FW: 168 MSD LIB#: 2133

CN: 8-undecenal, (8Z)-

Synonyms: none

Source: Bedoukian Res.



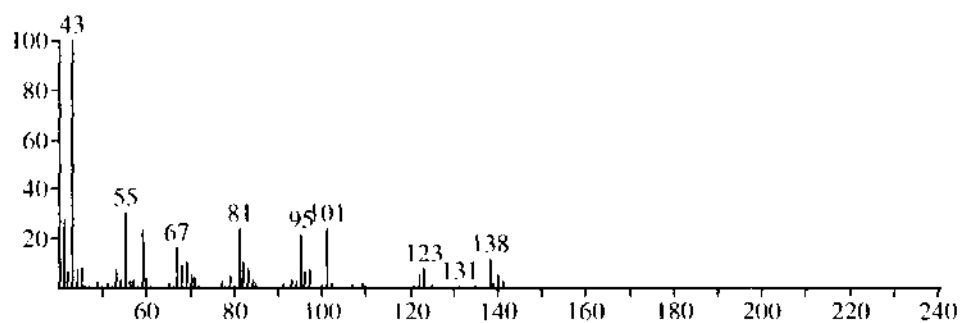
RT: 20.22 AI: 1300 KI: 1300 **Terpinyl acetate <trans-dihydro-α->**

CAS#: 20777-41-7 MF: C₁₂H₂₂O₂ FW: 198 MSD LIB#: 1468

CN: cyclohexanemethanol, α,α,4-trimethyl-, acetate, trans-

Synonyms: p-menthan-8-ol acetate, trans-

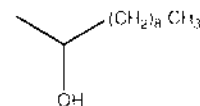
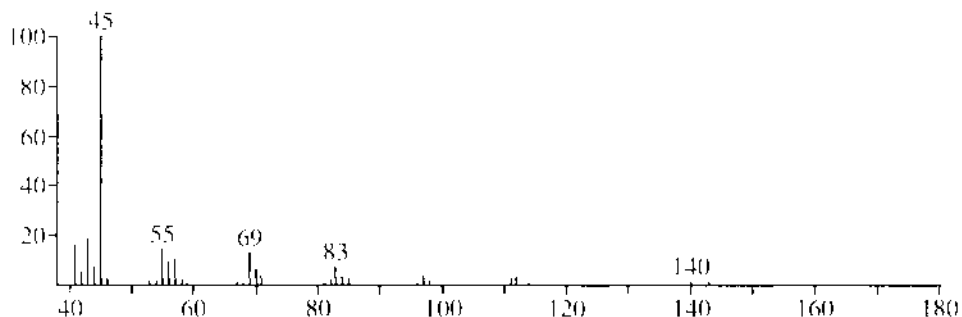
Source: acetylation of cis-dihydro-α-terpineol(6269)



RT: 20.26 AI: 1301 KI: 1301 **Undecanol <2>**CAS#: 1653-30-1 MF: C₁₁H₂₄O FW: 172 MSD LIB#: 1818

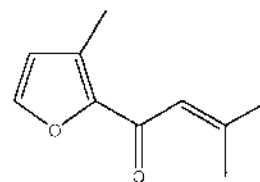
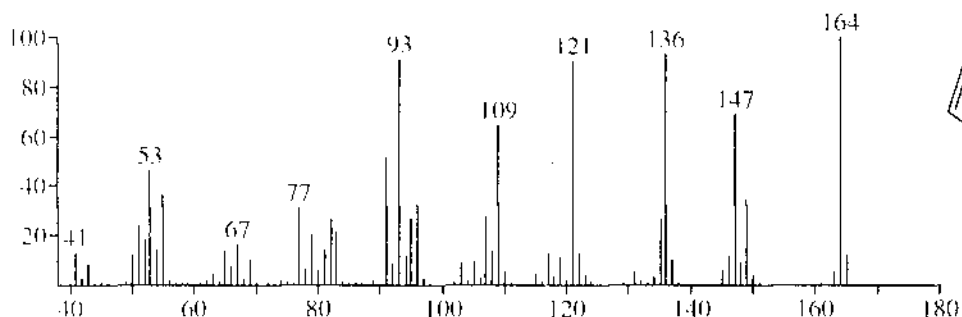
CN: 2-undecanol

Synonyms: sec-undecyl alcohol

Source: alcohols mix (2-OHs) ex K-H Kubeczka; 0.80% *Ruta graveolens*,Sci. Pharm. 56:121(1988); 0.51% *Rosa rugosa*; 0.30% *Curcuma aeruginosa*RT: 20.29 AI: 1302 KI: 1302 **Elsholtzia ketone <β-dehydro>**CAS#: 6138-88-1 MF: C₁₀H₁₂O₂ FW: 164 MSD LIB#: 656

CN: 2-buten-1-one, 3-methyl-1-(3-methyl-2-furanyl)-

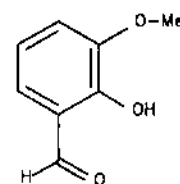
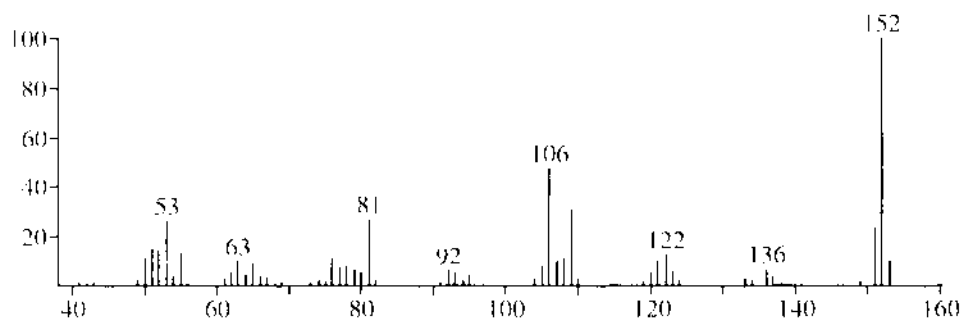
Synonyms: naginata ketone; elsholtzione; dehydro-

Source: *Elsholtzia cristata* ex O. Vostrowsky, Planta Med. 3:268(1987)RT: 20.29 AI: 1302 KI: 1302 **Vanillin <o>**CAS#: 148-53-8 MF: C₈H₈O₃ FW: 152 MSD LIB#: 1193

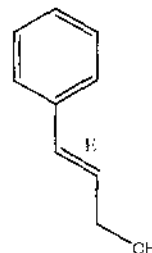
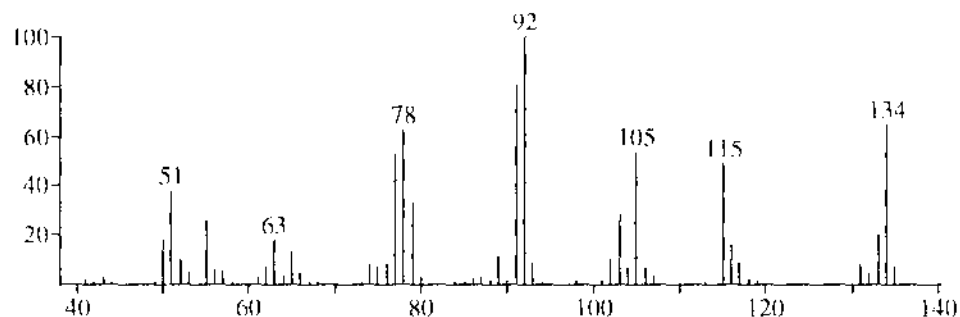
CN: benzaldehyde, 2-hydroxy-3-methoxy-

Synonyms: m-anisaldehyde, 2-hydroxy-; 6-formylguaiacol

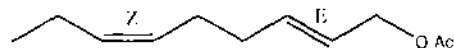
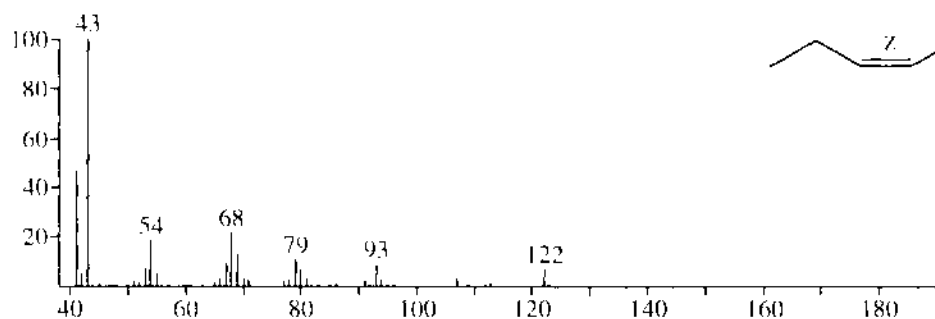
Source: Pfaltz & Bauer ex H Hills



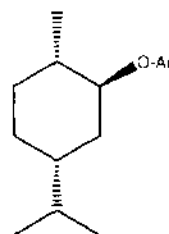
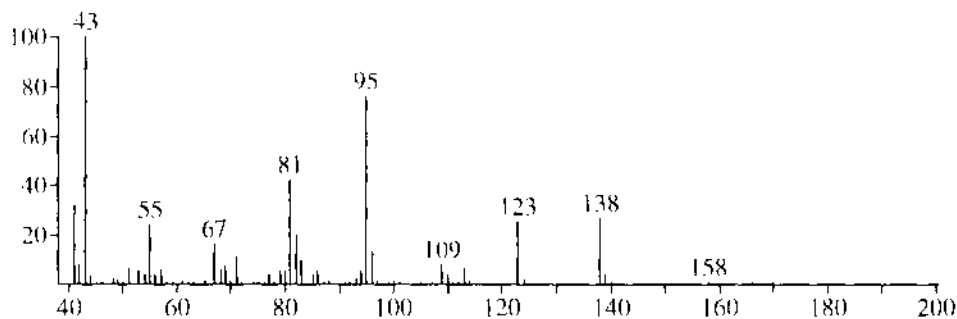
RT: 20.36 AI: 1303 KI: 1304 **Cinnamyl alcohol <(E)->**
 CAS#: 4407-36-7 MF: C₉H₁₀O FW: 134 MSD LIB#: 449
 CN: 2-propen-1-ol, 3-phenyl-, (E)-
 Synonyms: trans-cinnamyl alcohol
 Source: Aldrich Chem. ex H. Hills



RT: 20.36 AI: 1303 KI: 1304 **Nonadienol acetate <(2E,6Z)->**
 CAS#: 68555-65-7 MF: C₁₁H₁₈O₂ FW: 182 MSD LIB#: 2127
 CN: 2,6-nonadien-1-ol, acetate (E,Z)-
 Synonyms: none
 Source: Bedoukian Res.



RT: 20.39 AI: 1304 KI: 1305 **Menthyl acetate <iso->**
 CAS#: 20777-45-1 MF: C₁₂H₂₂O₂ FW: 198 MSD LIB#: 1263
 CN: cyclohexanol, 5-methyl-2-(1-methylethyl)-, acetate, (1α,2β,5β)-
 Synonyms: none
 Source: Acetylation of peppermint oil (5498)



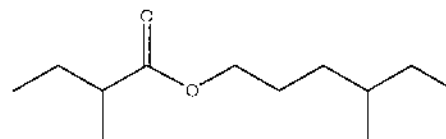
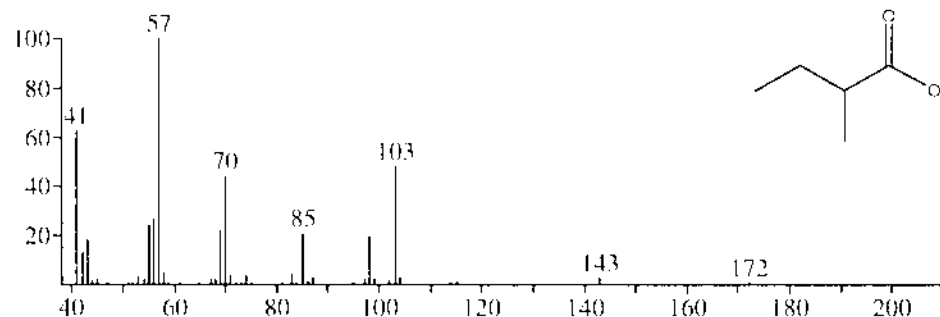
RT: 20.40 AI: 1304 KI: 1305 **Butanoic acid, 2-methyl-4-methylhexyl ester**

CAS#: 850309-46-5 MF: C₁₂H₂₄O₂ FW: 200 MSD LIB#: 2163

CN: butanoic acid, 2-methyl, 4-methylhexyl ester

Synonyms: none

Source: *Lomatium dissectum* root oil ex Vasu Dev



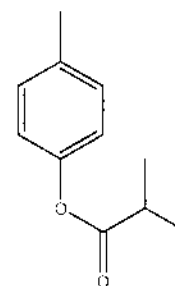
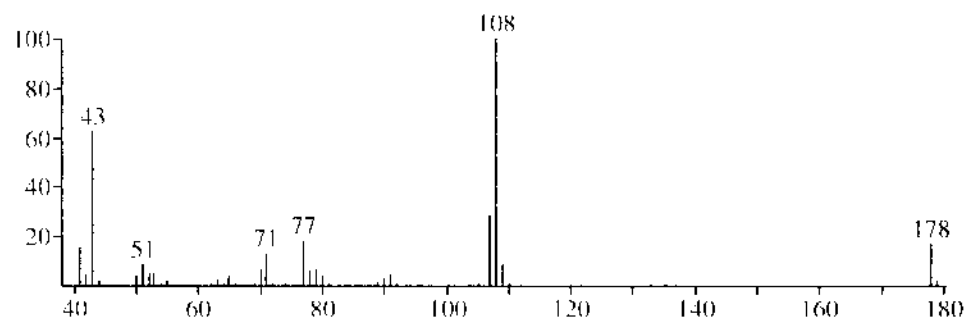
RT: 20.42 AI: 1305 KI: 1305 **Cresyl isobutyrate <p->**

CAS#: 103-93-5 MF: C₁₁H₁₄O₂ FW: 178 MSD LIB#: 2181

CN: propanoic acid, 2-methyl-, 4-methylphenyl ester

Synonyms: tolyl isobutyrate, p-

Source: Bedoukian Res.



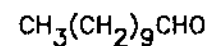
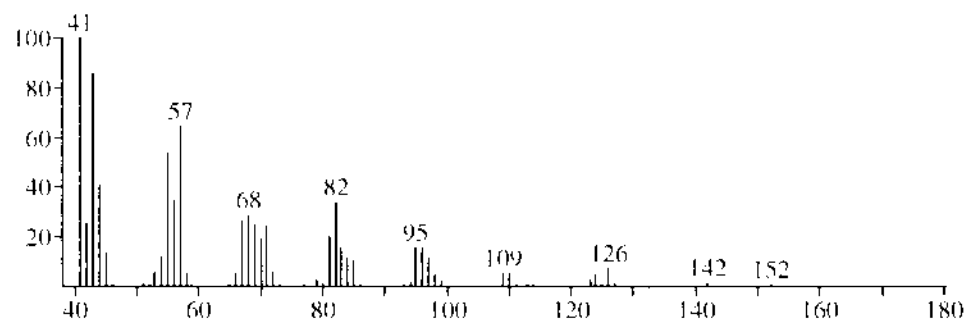
RT: 20.45 AI: 1305 KI: 1306 **Undecanal**

CAS#: 112-44-7 MF: C₁₁H₂₂O FW: 170 MSD LIB#: 1523

CN: undecanal

Synonyms: hendecanal

Source: Aldrich Chem. ex Art Tucker; 5.00% *Machilus bombycina*, JEOR 7:199(1995);
3.04% *Coriandrum sativum*; 2.08% *Narcissus tazetta*



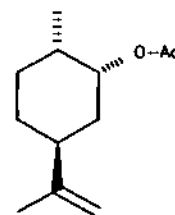
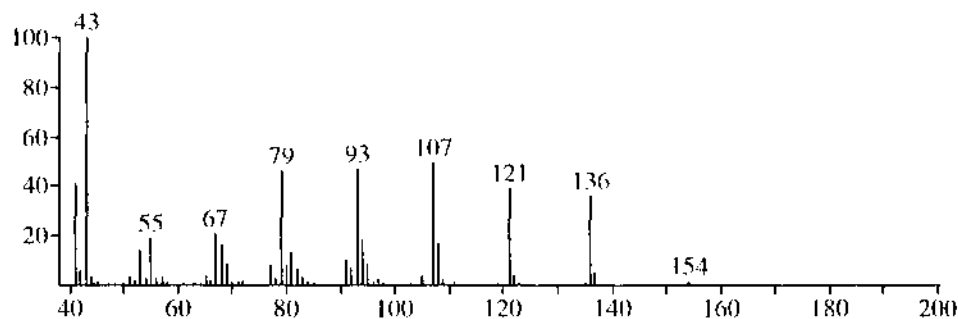
RT: 20.48 AI: 1306 KI: 1307 **Dihydro carveol acetate <neo->**

CAS#: 75684-64-9 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 596

CN: cyclohexanol, 2-methyl-5-(1-methylethenyl)-, acetate, (1R-(1 α ,2 α ,5 β))-

Synonyms: none

Source: ref. cpd., E von Rudloff



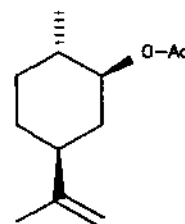
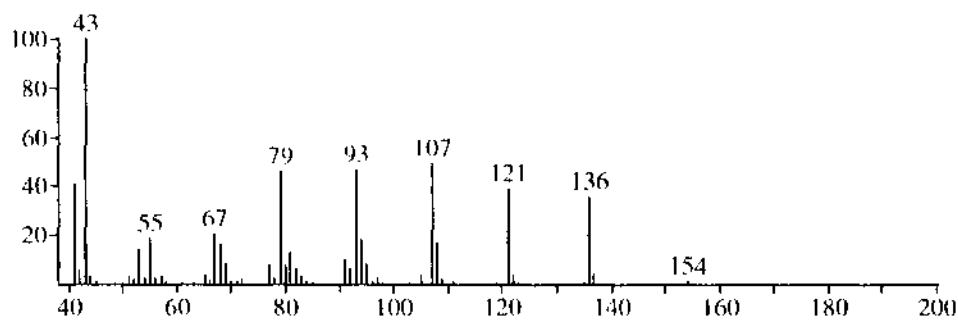
RT: 20.48 AI: 1306 KI: 1307 **Dihydro carveol acetate**

CAS#: 75684-65-0 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 597

CN: cyclohexanol, 2-methyl-5-(1-methylethenyl)-, acetate, (1 α ,2 β ,5 α)-

Synonyms: dihydrocarvyl acetate

Source: ref. cpd. ex E. von Rudloff



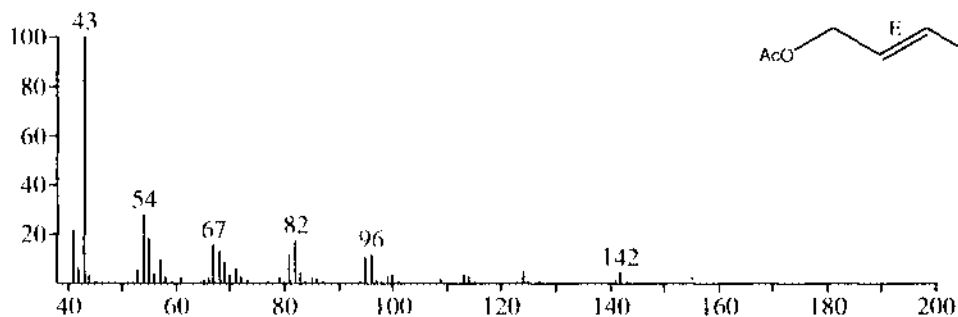
RT: 20.49 AI: 1306 KI: 1307 **Nonenol acetate <(2E)->**

CAS#: 30418-89-4 MF: C₁₃H₂₀O₂ FW: 184 MSD LIB#: 2083

CN: 2-nonen-1-ol, acetate, (2E)-

Synonyms: none

Source: Bedoukian Res.



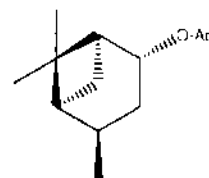
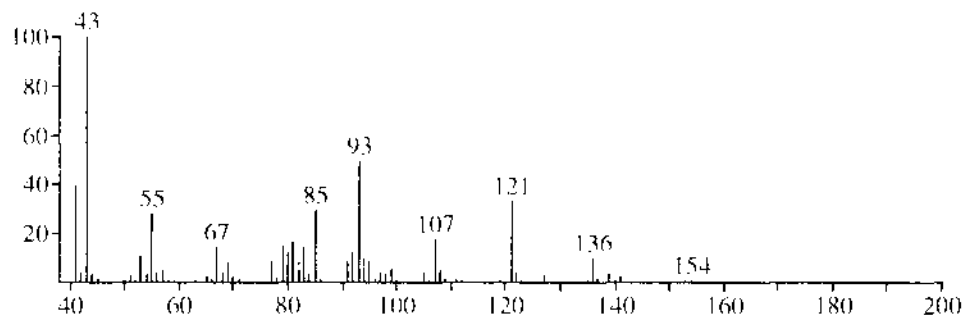
RT: 20.58 AI: 1308 KI: 1309 **Verbanol acetate <iso>**

CAS#: 73366-11-7 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 1541

CN: bicyclo(3.1.1)heptan-2-ol, 4,6,6-trimethyl-, acetate, (1 α ,2 α ,4 β ,5 α)-

Synonyms: none

Source: acetylation of verbanols(6314)



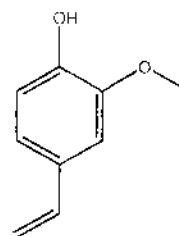
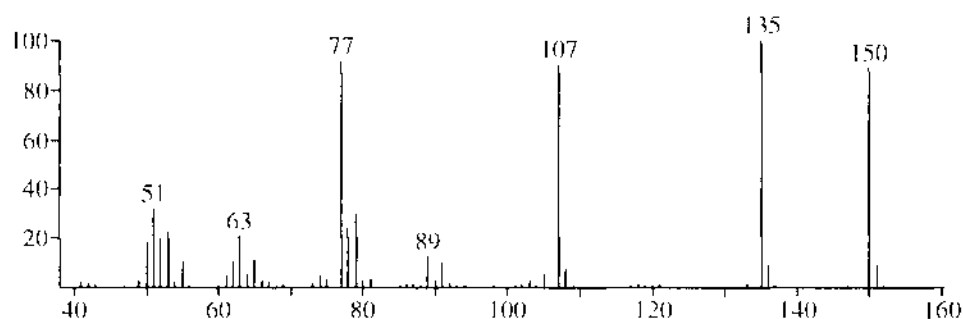
RT: 20.59 AI: 1309 KI: 1309 **Guaiacol <p-vinyl>**

CAS#: 7786-61-0 MF: C₉H₁₀O₂ FW: 150 MSD LIB#: 1662

CN: 2-methoxy-4-vinylphenol

Synonyms: p-vinylguaiacol, phenol<2-methoxy-4-vinyl >

Source: Aldrich Chem.



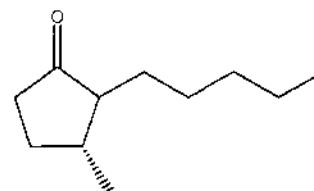
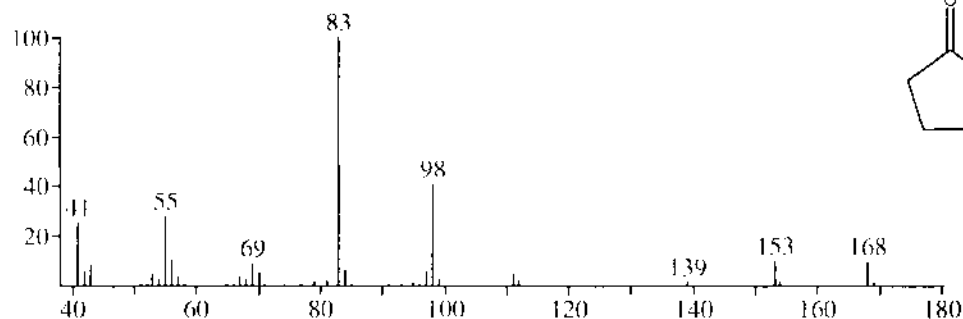
RT: 20.61 AI: 1309 KI: 1310 **Tetrahydro jasmone <trans>**

CAS#: 71535-29-0 MF: C₁₁H₂₀O FW: 168 MSD LIB#: 1956

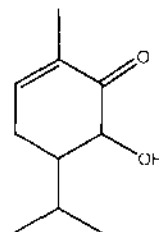
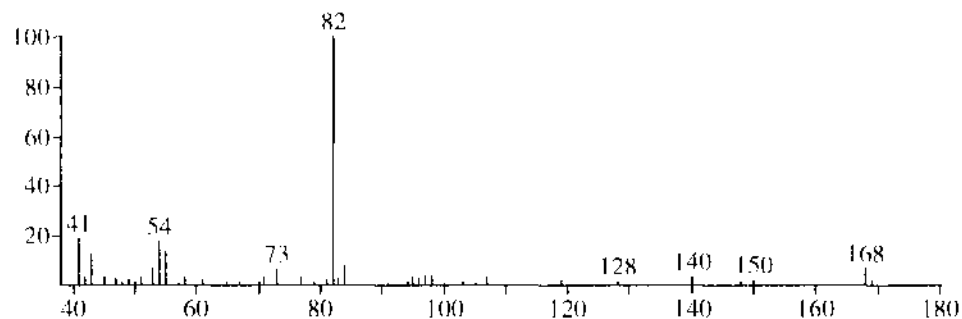
CN: cyclopentanone, 3-methyl-2-pentyl-, trans-

Synonyms: none

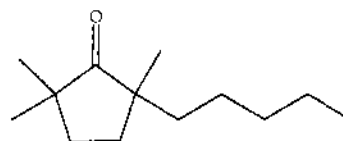
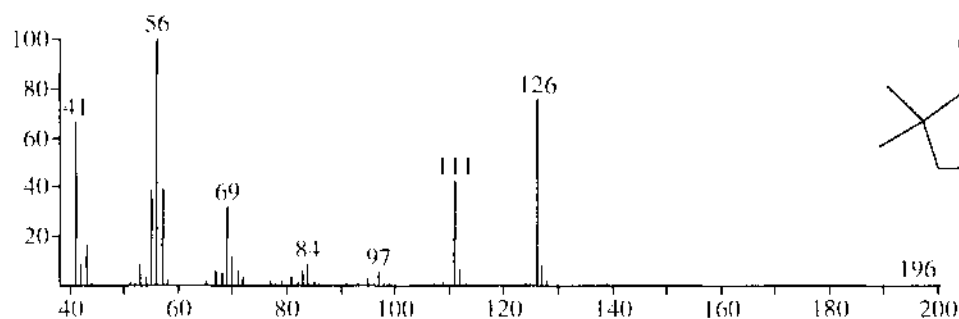
Source: Bedoukian Res. ex JJ Brophy



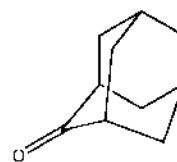
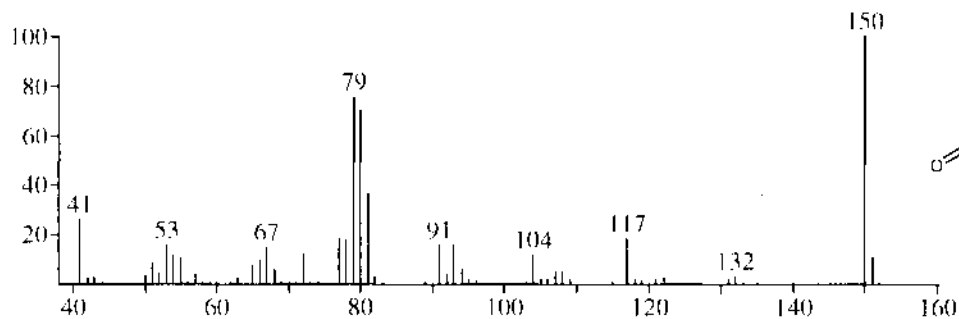
RT: 20.63 AI: 1309 KI: 1310 **Carvotanacetone <6-hydroxy->**
 CAS#: 131486-99-2 MF: C₁₀H₁₆O₂ FW: 168 MSD LIB#: 974
 CN: 2-cyclohexen-1-one, 6-hydroxy-2-methyl-5-(1-methylethyl)-
 Synonyms: none
 Source: *Laggera alata* oil ex JJ Scheffer



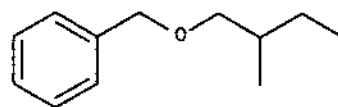
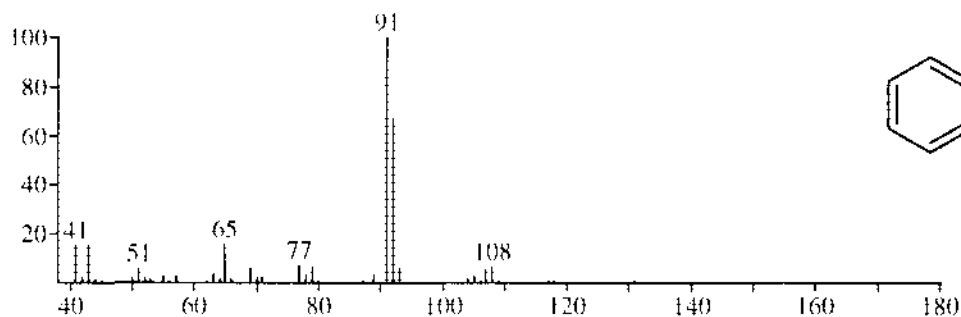
RT: 20.63 AI: 1309 KI: 1310 **Veloutone**
 CAS#: 65443-14-3 MF: C₁₃H₂₄O FW: 196 MSD LIB#: 1537
 CN: cyclopentanone, 2,2,5-trimethyl-5-pentyl-
 Synonyms: none
 Source: Firmenich ex Jian-Qin Cu, Kunming



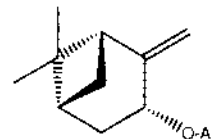
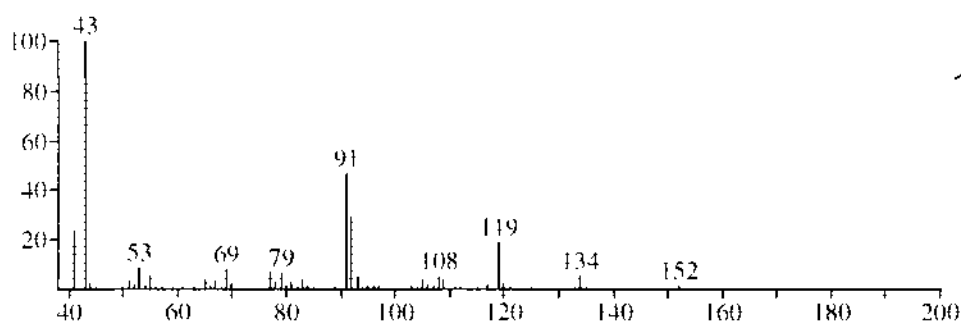
RT: 20.64 AI: 1310 KI: 1311 **Adamantanone <2->**
 CAS#: 700-58-3 MF: C₁₀H₁₄O FW: 150 MSD LIB#: 1995
 CN: tricyclo(3.3.1.1^{3,7})decanone
 Synonyms: 2-oxoadamantane
 Source: Aldrich Chem. ex JJ Brophy



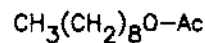
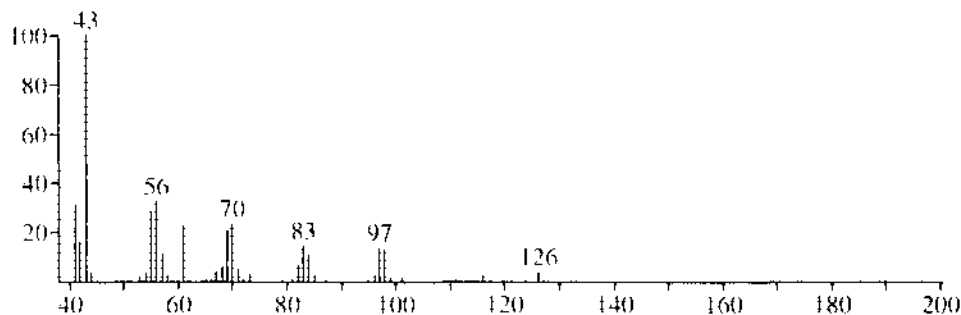
RT: 20.64 AI: 1310 KI: 1311 **Isoamyl benzyl ether**
 CAS#: 122-73-6 MF: C₁₂H₁₈O FW: 178 MSD LIB#: 851
 CN: benzene, ((3-methylbutoxy)methyl)-
 Synonyms: isopentyl benzyl ether
 Source: Pfaltz & Bauer ex Art Tucker



RT: 20.68 AI: 1311 KI: 1312 **Pinocarvyl acetate <cis->**
 CAS#: 73366-18-4 MF: C₁₂H₁₈O₂ FW: 194 MSD LIB#: 1312
 CN: bicyclo[3.1.1]heptan-3-ol, 6,6-dimethyl-2-methylene-, acetate, (1 α ,3 β ,5 α)-
 Synonyms: none
 Source: ref. cpd. ex E. von Rudloff



RT: 20.69 AI: 1311 KI: 1312 **Nonanyl acetate <n->**
 CAS#: 143-13-5 MF: C₁₁H₂₂O₂ FW: 186 MSD LIB#: 1171
 CN: acetic acid, nonyl ester
 Synonyms: pelargonyl acetate
 Source: K & K Chem. ex H. Hills



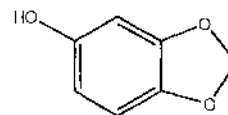
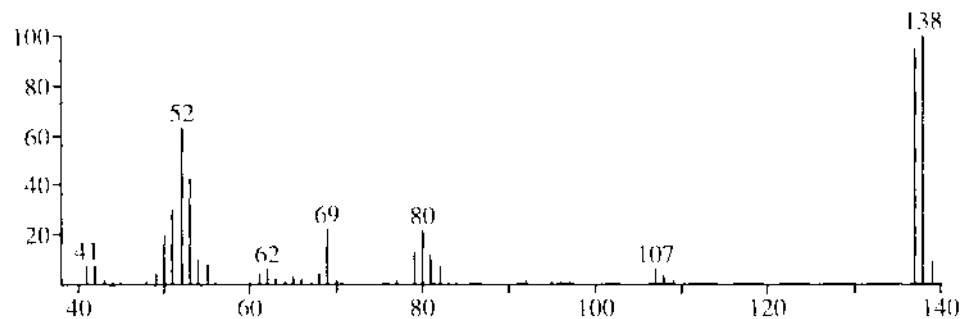
RT: 20.69 Al: 1311 Kl: 1312 **Sesamol**

CAS#: 533-31-3 MF: C₇H₆O₃ FW: 138 MSD LIB#: 1405

CN: 1,3-benzodioxol-5-ol

Synonyms: phenol, 3,4-(methylenedioxy)-

Source: ref. cpd. ex E. von Rudloff



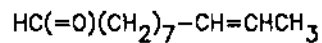
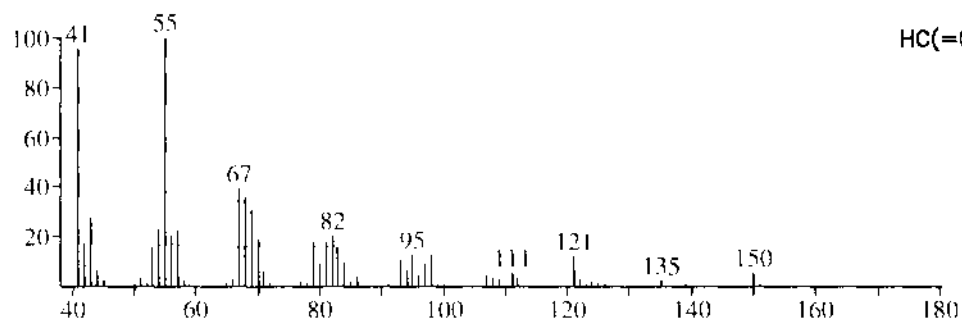
RT: 20.70 Al: 1311 Kl: 1312 **Undec-(9E)-en-1-al**

CAS#: 143-14-6 MF: C₁₁H₂₀O FW: 168 MSD LIB#: 1520

CN: 9-undecenal

Synonyms: 9-hendecenal

Source: Glivaudan ex Jian-Qin Cu. Kunming



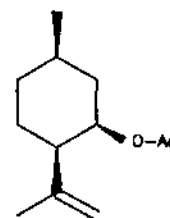
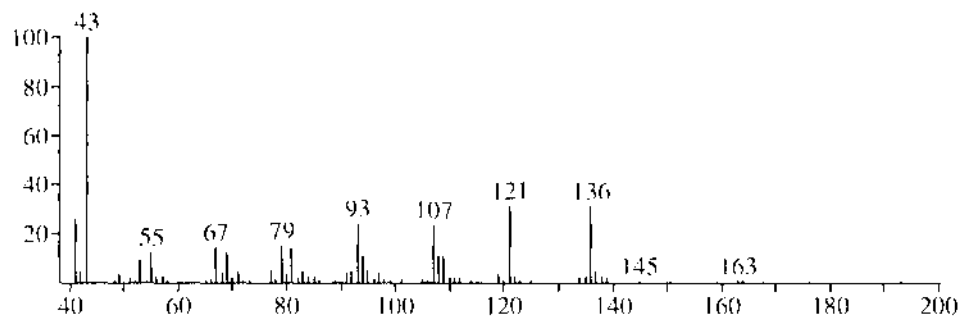
RT: 20.73 Al: 1312 Kl: 1313 **Isopulegyl acetate <neoiso->**

CAS#: 000-00-0 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 882

CN: not assigned

Synonyms: none

Source: Aldrich Chem.



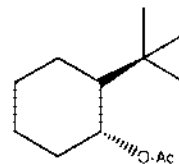
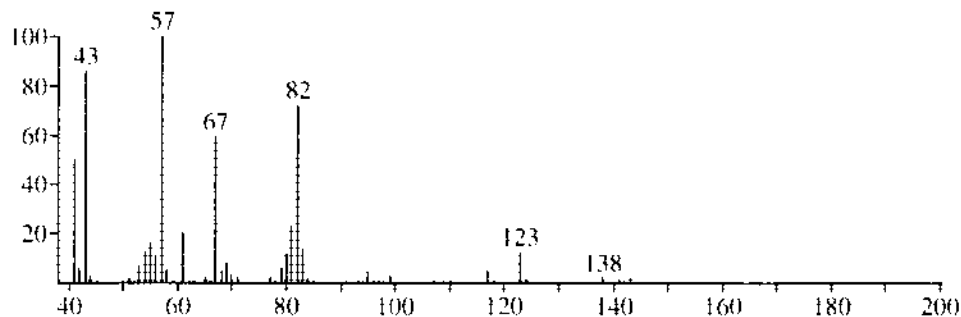
RT: 20.74 AI: 1312 KE: 1313 **Cyclohexanol acetate <trans-2-tert-butyl->**

CAS#: 20298-70-8 MF: C₁₂H₂₂O₂ FW: 198 MSD LIB#: 542

CN: cyclohexanol, 2-(1,1-dimethylethyl)-, acetate, trans-

Synonyms: none

Source: ref. cpd. ex Art Tucker



RT: 20.75 AI: 1312 KE: 1313 **Citronelllic acid**

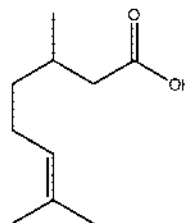
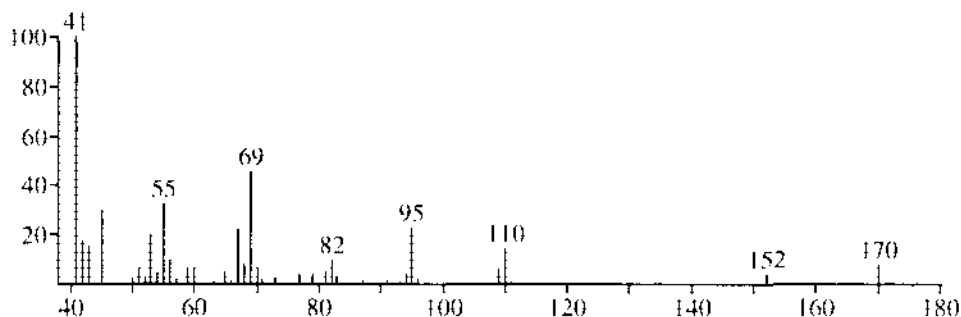
CAS#: 502-47-6 MF: C₁₀H₁₈O₂ FW: 170 MSD LIB#: 1717

CN: 6-octenoic acid, 3,7-dimethyl-

Synonyms: none

Source: ref. cpd. ex E. von Rudloff; 4.70% *Eucalyptus citriodora*, JHOR 4:259(1992);

0.52% *Citrus hystrix* (twig); 0.41% *Citrus paradisi* (leaf)



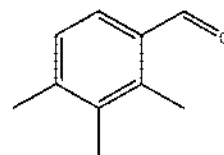
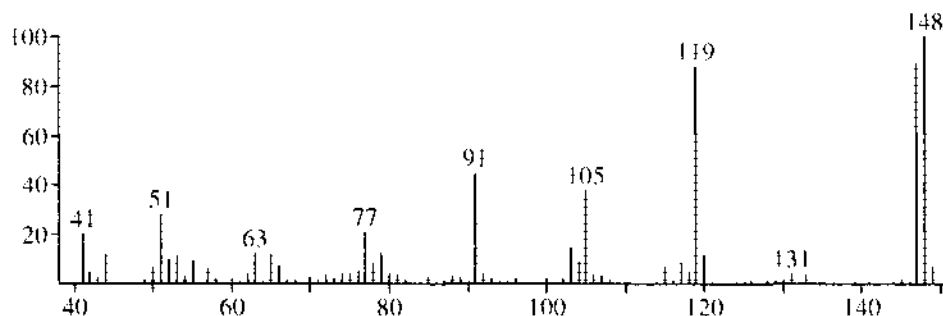
RT: 20.79 AI: 1313 KE: 1314 **Trimethyl benzaldehyde <2,3,4->**

CAS#: 34341-28-1 MF: C₁₀H₁₂O FW: 148 MSD LIB#: 660

CN: benzaldehyde, 2,3,4-trimethyl-

Synonyms: none

Source: *Eryngium foetidum* oil ex KC Wong, Malaysia



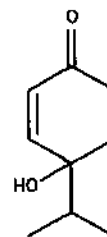
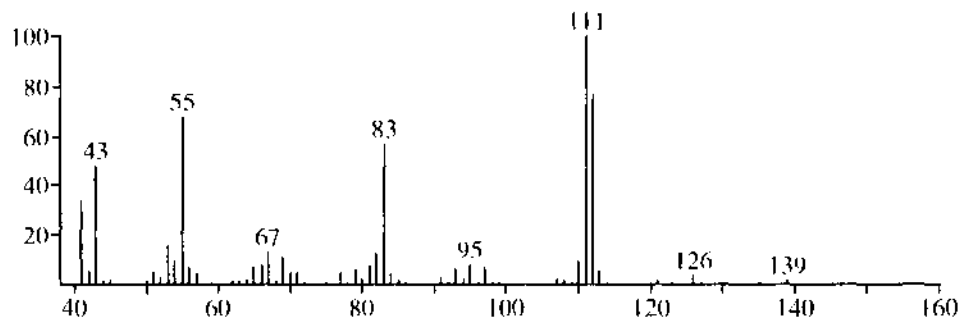
RT: 20.83 AI: 1314 KI: 1315 **Cryptone <4-hydroxy->**

CAS#: 39725-34-3 MF: C₉H₁₄O₂ FW: 154 MSD LIB#: 1421

CN: 2-cyclohexene-1-one, 4-hydroxy-4-(1-methylethyl)-

Synonyms: 2-cyclohexen-1-one, 4-hydroxy-4-(1-methylethyl)-

Source: *Solidago graminifolia* oil ex P. Weyerstahl



RT: 20.87 AI: 1315 KI: 1316 **Decadienal <(2E,4E)->**

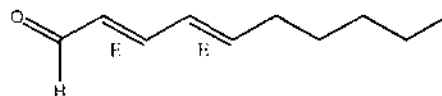
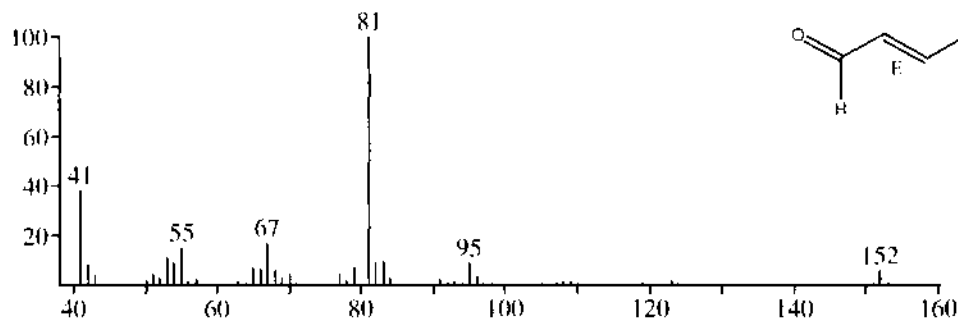
CAS#: 25152-84-5 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 564

CN: 2,4-decadienal, (E,E)-

Synonyms: 2-trans, 4-trans-decadienal

Source: ref. cpd. ex Art Tucker; 2.65% *Nicotiana forgetiana* (flower).

JEOR 7:265(1995); 2.00% *Rhus coriaria*; 0.83% *Sideritis amasiaca*



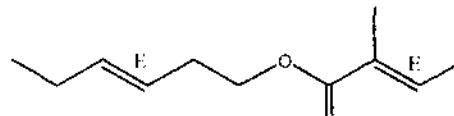
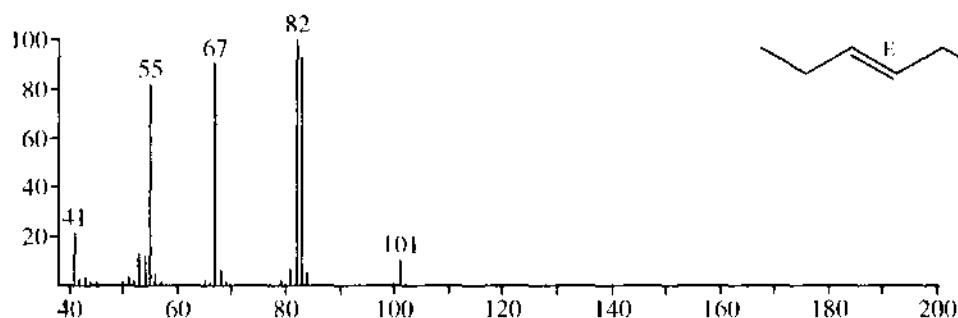
RT: 20.88 AI: 1315 KI: 1317 **Hexenyl tiglate <(3E)->**

CAS#: 120603-00-1 MF: C₁₁H₁₈O₂ FW: 182 MSD LIB#: 1937

CN: 2-butenoic acid, 2-methyl-, (3E)-3-hexenyl ester, (2E)-

Synonyms: hexenyl tiglate <trans-3->

Source: Bedoukian Res. ex JJ Brophy



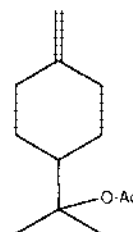
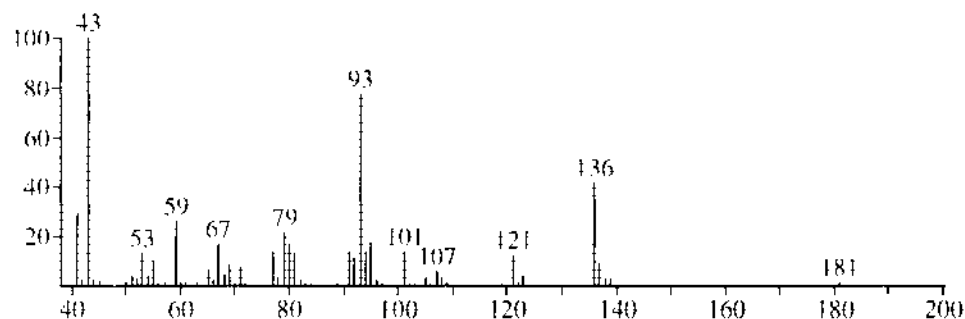
RT: 20.90 AI: 1316 KI: 1317 **Terpinyl acetate <δ->**

CAS#: 93836-50-1 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 1562

CN: cyclohexanemethanol, α,α-dimethyl-4-methylene-, acetate

Synonyms: none

Source: Dragoco ex Norbert Braum



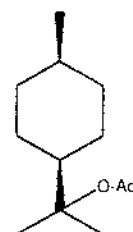
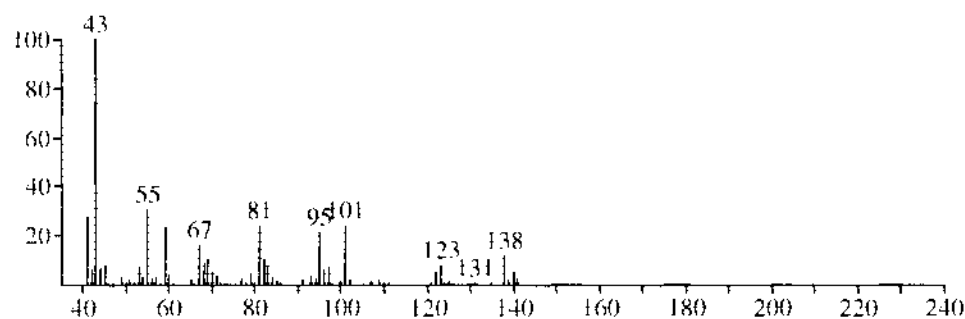
RT: 20.91 AI: 1316 KI: 1317 **Terpinyl acetate <cis-dihydro-α->**

CAS#: 20777-40-6 MF: C₁₂H₂₂O₂ FW: 198 MSD LIB#: 1467

CN: cyclohexanemethanol, α,α,4-trimethyl-, acetate, cis-

Synonyms: p-menthan-8-ol acetate, cis-

Source: Dragoco ex Norbert Braum



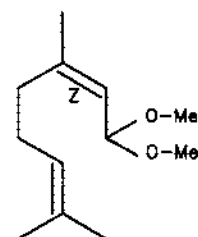
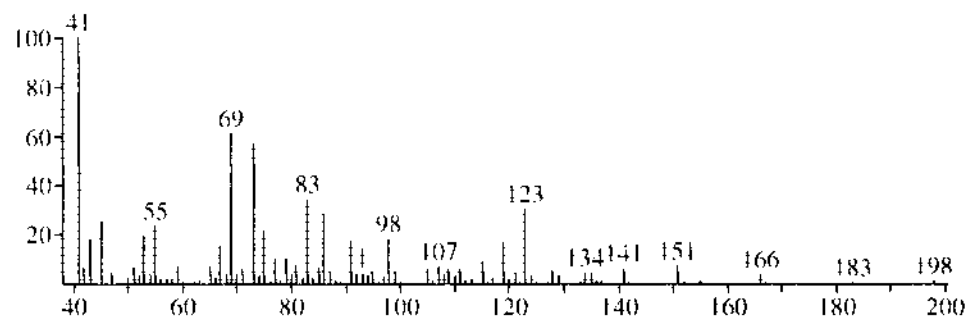
RT: 20.93 AI: 1316 KI: 1318 **Citral <dimethoxy-(Z)->**

CAS#: 75128-97-1 MF: C₁₂H₂₂O₂ FW: 198 MSD LIB#: 451

CN: 2,6-octadiene, 1,1-dimethoxy-3,7-dimethyl-, (Z)-

Synonyms: dimethoxy nerol

Source: Aldrich Chem. ex H. Hills



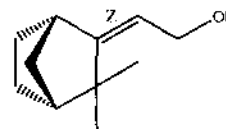
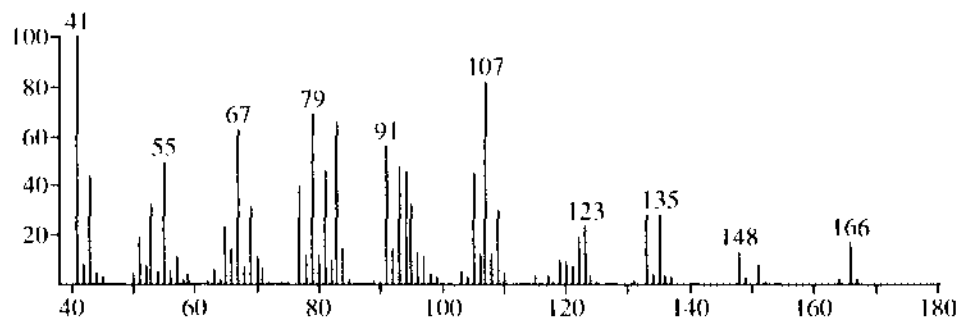
RT: 20.94 AI: 1316 KI: 1318 **Patchenol <(Z)->**

CAS#: 58437-72-2 MF: C₁₁H₁₈O FW: 166 MSD LIB#: 1237

CN: ethanol, 2-(3,3-dimethylbicyclo(2.2.1)hept-2-ylidene)-, (2Z)-

Synonyms: camphene methanol, 8-

Source: ref. cpd. ex P. Weyerstahl



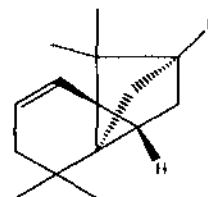
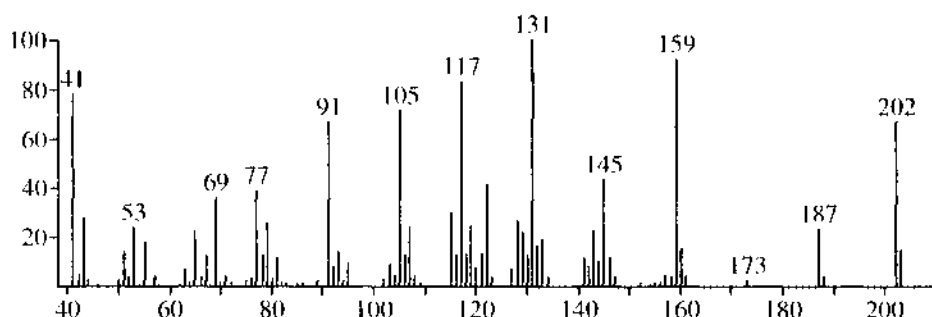
RT: 20.96 AI: 1317 KI: 1319 **Cycloisolongifolene <didehydro->**

CAS#: 74842-33-4 MF: C₁₅H₂₂ FW: 202 MSD LIB#: 536

CN: 2,3b-methano-3bH-cyclopenta(1,3)cyclopropa(1,2)benzene, 1,2,3,3a,4,5-hexahydro-1,1,4,4-tetramethyl-

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl



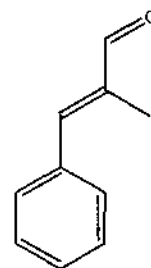
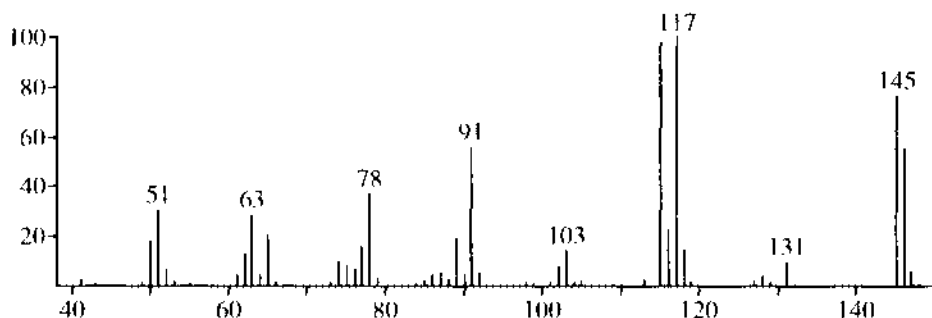
RT: 21.00 AI: 1318 KI: 1319 **Cinnamaldehyde <α-methyl->**

CAS#: 101-39-3 MF: C₁₀H₁₀O FW: 146 MSD LIB#: 1686

CN: 2-propenal, 2-methyl-3-phenyl-

Synonyms: α-methyl cinnamal, 2-methyl-3-phenylacrolein

Source: Aldrich Chem.



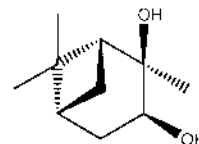
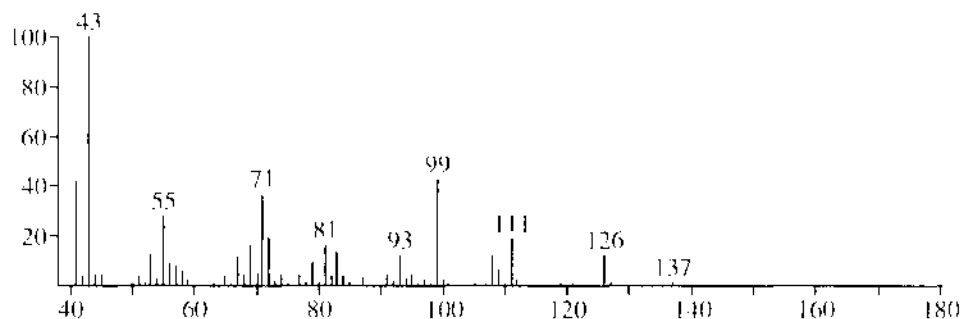
RT: 21.01 AI: 1318 KI: 1320 **Pinanediol <cis-2,3->**

CAS#: 18680-27-8 MF: C₁₀H₁₈O₂ FW: 170 MSD LIB#: 1299

CN: bicyclo[3.1.1]heptane-2,3-diol, 2,6,6-trimethyl-, (1R-(1 α ,2 α ,3 α ,5 α))-

Synonyms: pinene glycol, cis- α -

Source: Aldrich Chem.



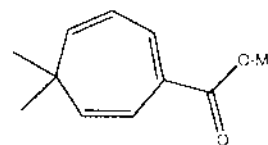
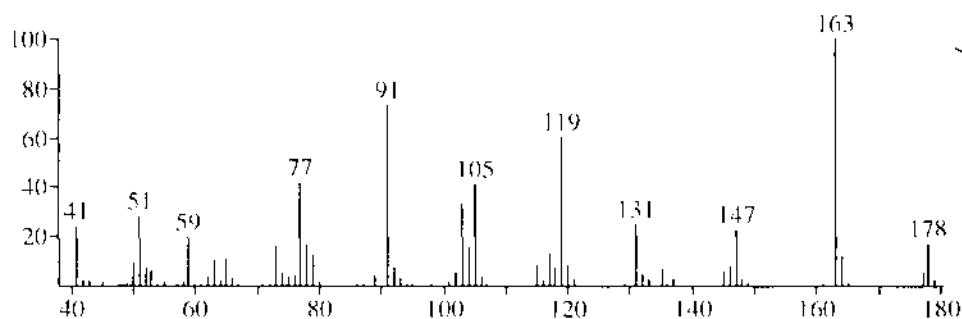
RT: 21.02 AI: 1318 KI: 1320 **Methyl thujate**

CAS#: 54598-10-6 MF: C₁₁H₁₄O₂ FW: 178 MSD LIB#: 1864

CN: 1,3,6-cycloheptatriene-1-carboxylic acid, 5,5-dimethyl-, methyl ester

Synonyms: thujic acid, methyl ester;

Source: Quest Intl. ex Robin Clery



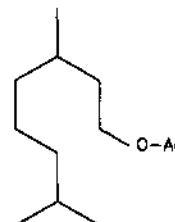
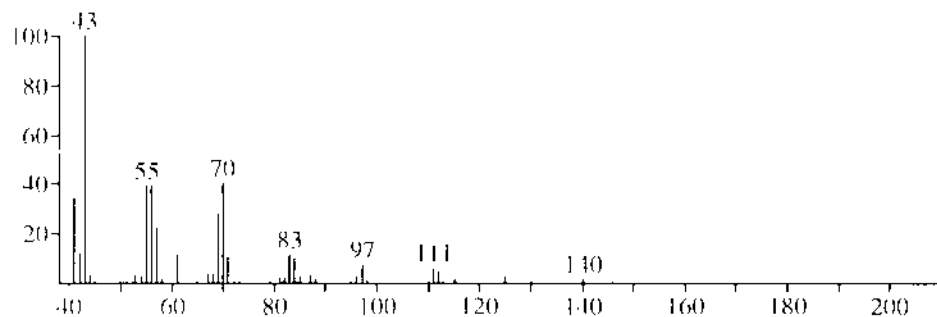
RT: 21.04 AI: 1319 KI: 1320 **Dihydro citronellol acetate**

CAS#: 20780-49-8 MF: C₁₂H₂₄O₂ FW: 200 MSD LIB#: 592

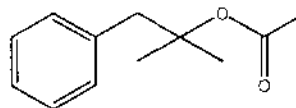
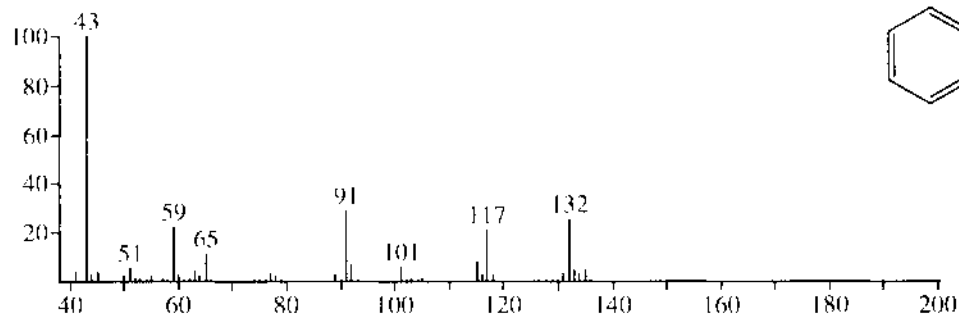
CN: 1-octanol, 3,7-dimethyl-, acetate

Synonyms: dihydro citronellyl acetate; tetrahydro geranyl acetate

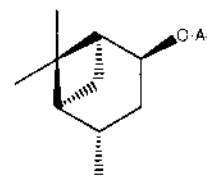
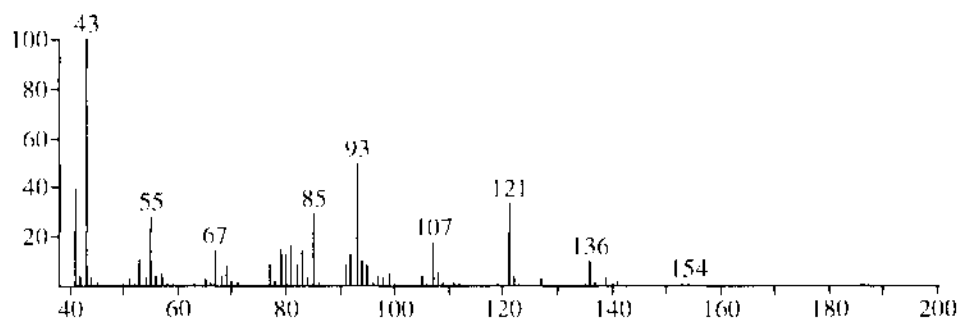
Source: ref. cpd. ex E. von Rudloff



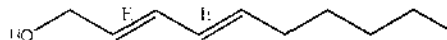
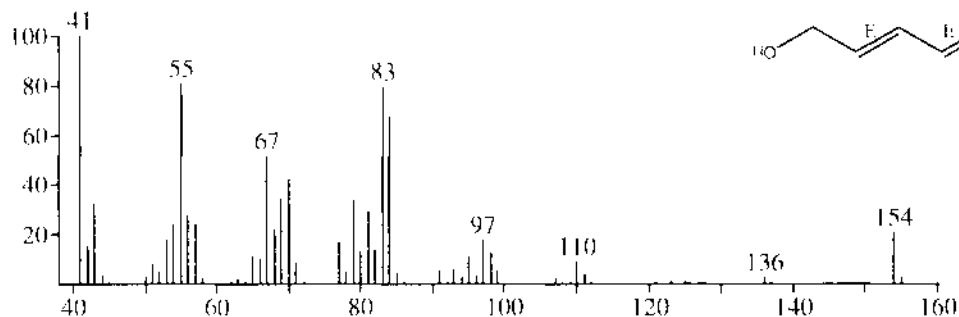
RT: 21.04 AI: 1319 KI: 1320 **Dimethyl phenethyl acetate < α,α ->**
 CAS#: 151-05-3 MF: C₁₂H₁₆O₂ FW: 192 MSD LIB#: 611
 CN: benzene ethanol, α,α -dimethyl-, acetate
 Synonyms: dimethylbenzylcarbinol acetate
 Source: Aldrich Chem.



RT: 21.05 AI: 1319 KI: 1321 **Verbanol acetate <neo->**
 CAS#: 73366-10-6 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 1542
 CN: bicyclo(3.1.1)heptan-2-ol, 4,6,6-trimethyl-, acetate, (1 α ,2 β ,4 α ,5 α)-
 Synonyms: none
 Source: acetylation of verbanols(6314)



RT: 21.07 AI: 1319 KI: 1321 **Decadienol <(2E,4E)->**
 CAS#: 18409-21-7 MF: C₁₀H₁₈O FW: 154 MSD LIB#: 2106
 CN: 2,4-decadien-1-ol, (2E,4E)-
 Synonyms: none
 Source: Bedoukian Res.



RT: 21.07 AI: 1319 KE: 1321 **Hexenyl tiglate <(3Z)->**

CAS#: 67883-79-8 MF: C₁₁H₁₈O₂ FW: 182 MSD LIB#: 1936

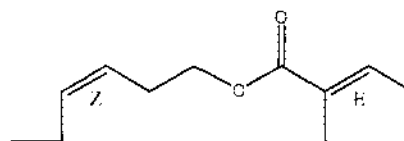
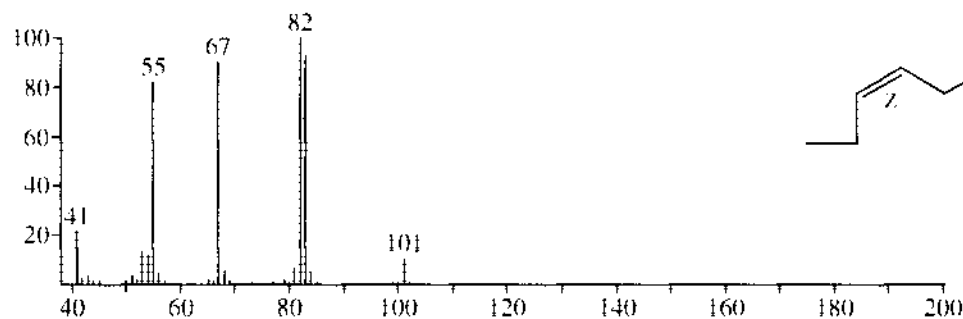
CN: hexenyl tiglate <3Z->

Synonyms: hexenyl tiglate <cis-3->

Source: Bedoukian Res. ex JJ Brophy; 20.30% *Gardenia jasminoides*,

p.90, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong(1993);

3.70% *Lonicera japonica*; 0.40% *Hyacinthus orientalis*



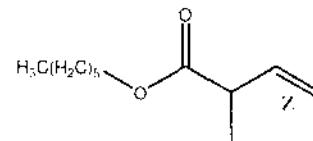
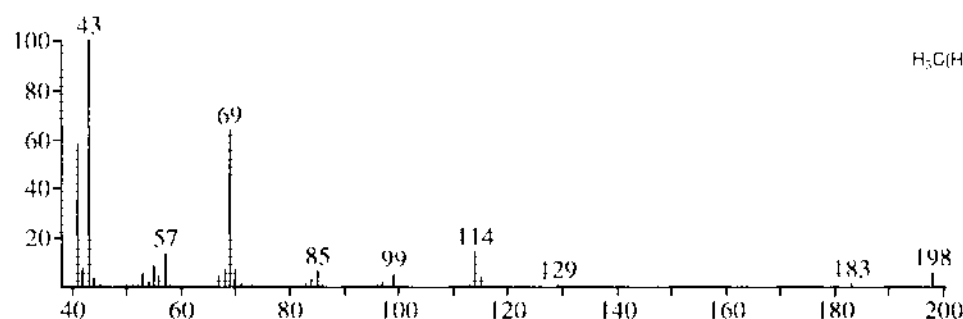
RT: 21.11 AI: 1320 KE: 1322 **Hexyl 2-methyl-3-pentenoate**

CAS#: 58625-94-8 MF: C₁₂H₂₂O₂ FW: 198 MSD LIB#: 2196

CN: 3-pentenoic acid, 2-methyl-, hexyl ester, (Z)-

Synonyms: none

Source: Bedoukian Res.



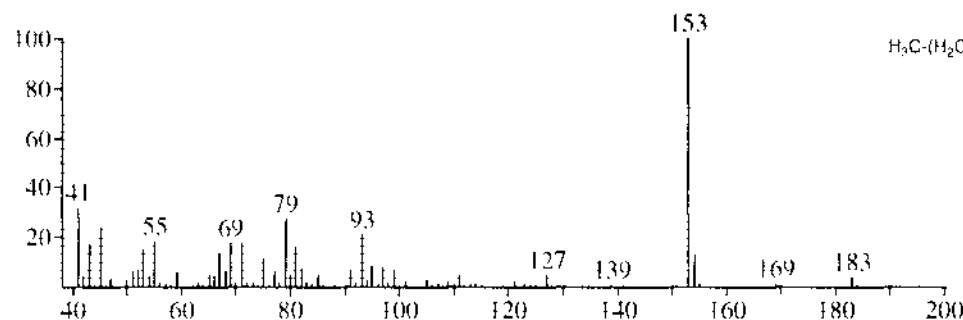
RT: 21.16 AI: 1321 KE: 1323 **Nonyne <1,1-dimethoxy-2->**

CAS#: 13257-44-8 MF: C₁₁H₂₀O₂ FW: 184 MSD LIB#: 2115

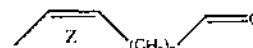
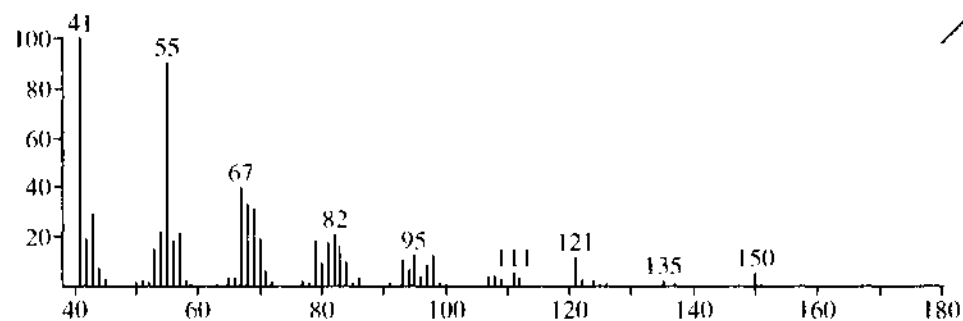
CN: 2-nonyne, 1,1-dimethoxy-

Synonyms: none

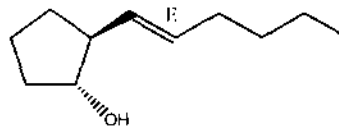
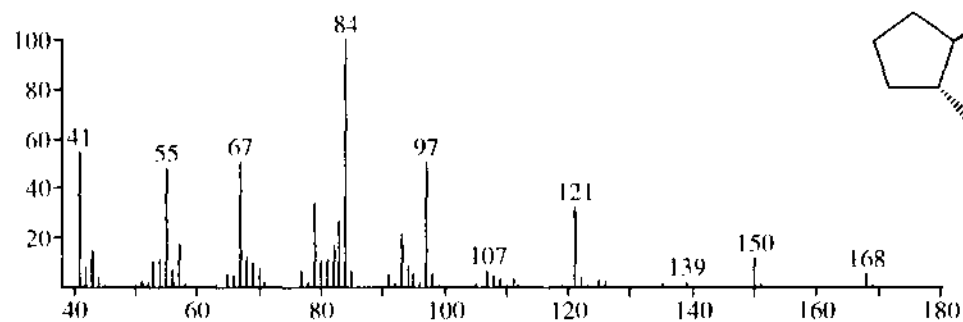
Source: Bedoukian Res.



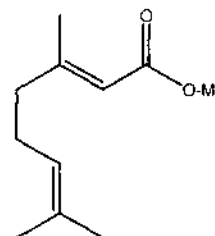
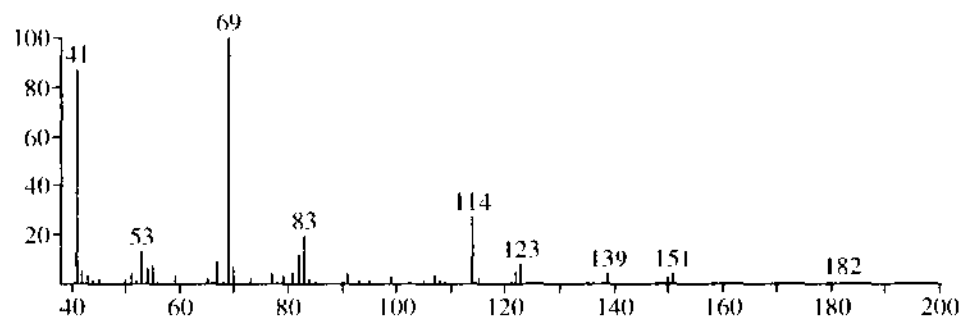
RT: 21.17 AI: 1322 KI: 1324 **Undec-(9Z)-en-1-al**
 CAS#: 390745-03-6 MF: C₁₁H₂₀O FW: 168 MSD LIB#: 1521
 CN: 9-undecenal, (9Z)-
 Synonyms: none
 Source: Givaudan ex Jian-Qin Cu, Kunming



RT: 21.18 AI: 1322 KI: 1324 **Jasmonol <trans, (E)->**
 CAS#: 156316-87-9 MF: C₁₁H₂₀O FW: 168 MSD LIB#: 2026
 CN: cyclopentanol, 2-(1E)-1-hexenyl-, (1R,2S)-
 Synonyms: none
 Source: Bedoukian Res. ex JJ Brophy



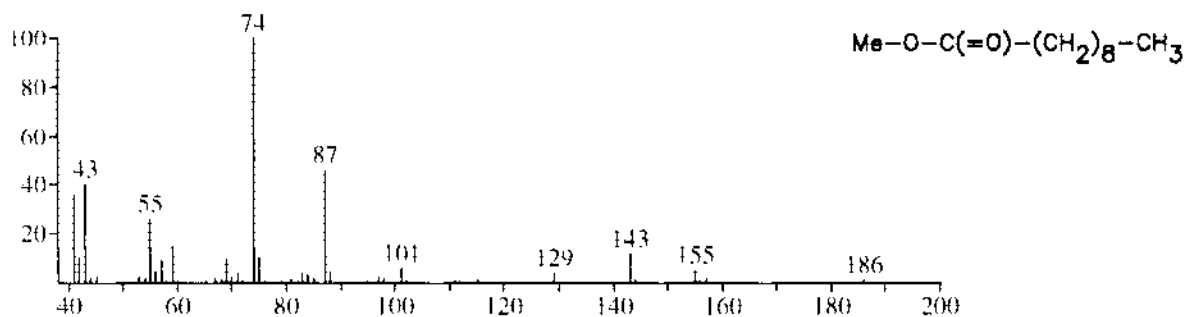
RT: 21.19 AI: 1322 KI: 1324 **Methyl geranate**
 CAS#: 2349-14-6 MF: C₁₁H₁₈O₂ FW: 182 MSD LIB#: 1133
 CN: 2,6-octadienoic acid, 3,7-dimethyl-, methyl ester
 Synonyms: methyl geraniate
 Source: *Neocallotropis pancheri* oil ex P. Raharivelomanana; 0.80% *Laurus nobilis*,
 Acta Bot. Sinica 32:878(1990); 0.70% *Aloysia triphylla*; 0.66% *Rosa damascena*



RT: 21.23 AI: 1323 KI: 1325 **Methyl decanoate**CAS#: 110-42-9 MF: C₁₁H₂₂O₂ FW: 186 MSD LIB#: 1091

CN: decanoic acid, methyl ester

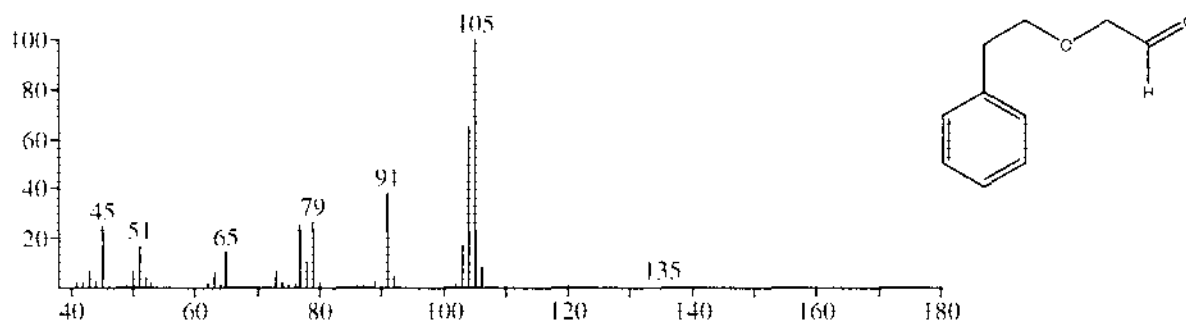
Synonyms: methyl caprate; capric acid, methyl ester

Source: ref. epd. ex E. von Rudloff; 4.10% *Annonum ptycholinatum*, p. 333.in: Flav. & Frag.: A World Persp., Lawrence, et al. (eds.), Proc. 10th Int. Cong. Ess. Oils, Elsevier, Amsterdam (1988); 3.49% *Magnolia grandiflora*; 2.51% *Humulus lupulus*RT: 21.28 AI: 1324 KI: 1326 **Phenyl ethyl oxyacetaldehyde**CAS#: 41847-88-5 MF: C₁₀H₁₂O₂ FW: 164 MSD LIB#: 1289

CN: acetaldehyde, (2-phenylethoxy)-

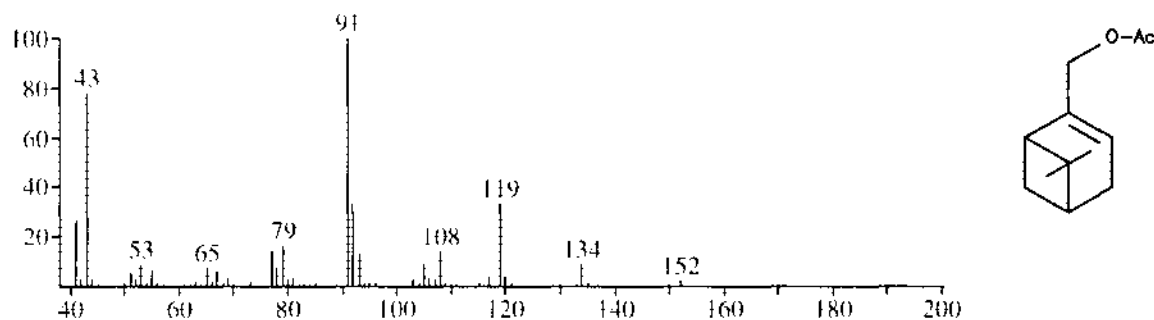
Synonyms: none

Source: Aldrich Chem. ex Art Tucker

RT: 21.29 AI: 1324 KI: 1326 **Myrtenyl acetate**CAS#: 1079-01-2 MF: C₁₂H₁₈O₂ FW: 194 MSD LIB#: 1121

CN: bicyclo(3.1.1)hept-2-ene-2-methanol, 6,6-dimethyl-, acetate, (1S)

Synonyms: 2-pinen-10-ol, acetate

Source: acetylation of myrtenol (6115); 35.90% *Myrtus communis* (leaf).JHOR 3:173(1991); 33.00% *Myrtus communis* (unripe fruit); 6.50% *Egletes viscosa*

RT: 21.30 AI: 1325 KI: 1327 **Mentha-1,4-dien-7-ol <p->**

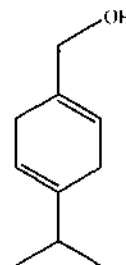
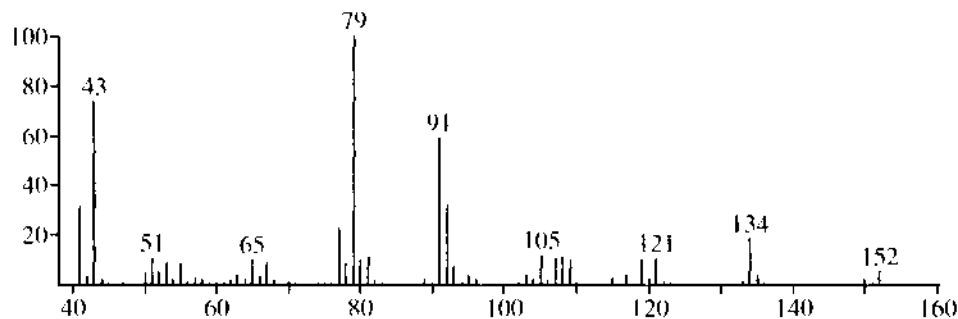
CAS#: 22539-72-6 MF: C₁₀H₁₆O FW: 152 MSD LIB#: 2180

CN: 1,4-cyclohexadiene-1-methanol, 4-(1-methylethyl)-

Synonyms: none

Source: *Rhodiola rosea* roots ex. Jan Karlsen, Norway; 0.70% *Hedysotis diffusa*,

JHOR 7:537(1995); 0.38% *Citrus sinensis*; 0.19% *Daucus carota*



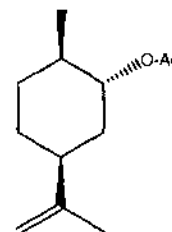
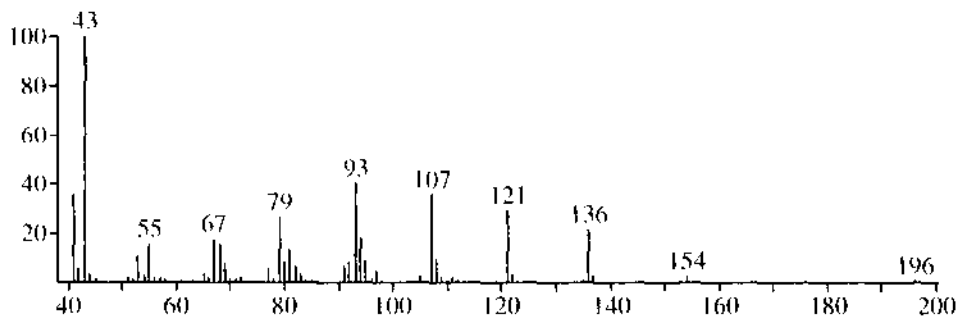
RT: 21.36 AI: 1326 KI: 1329 **Dihydro carveol acetate <iso->**

CAS#: 160868-58-6 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 598

CN: cyclohexanol, 2-methyl-5-(1-methylethenyl)-, acetate, (1 α ,2 β ,5 β)-

Synonyms: none

Source: ref. epd. ex E. von Rudloff



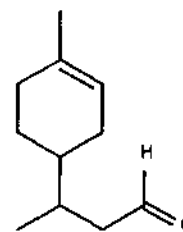
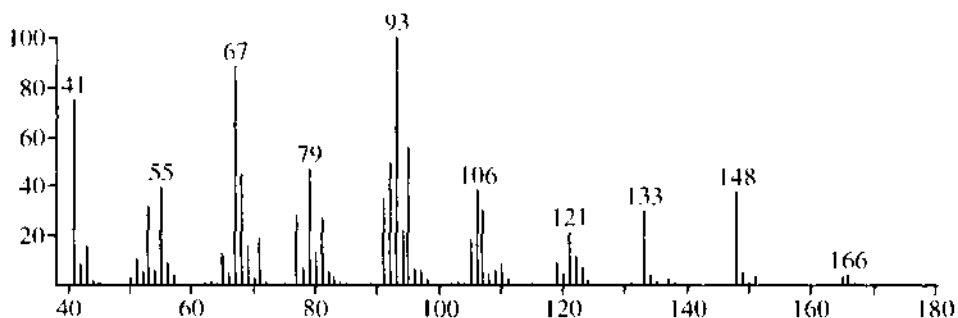
RT: 21.37 AI: 1326 KI: 1328 **Limonene aldehyde**

CAS#: 6784-13-0 MF: C₁₁H₁₈O FW: 166 MSD LIB#: 1006

CN: 3-cyclohexene-1-propanal, β ,4-dimethyl-

Synonyms: p-menth-1-ene-9-carboxaldehyde

Source: Takita Chem. ex Art Tucker



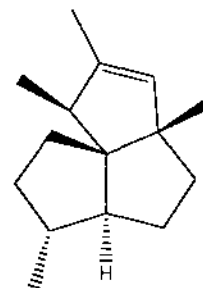
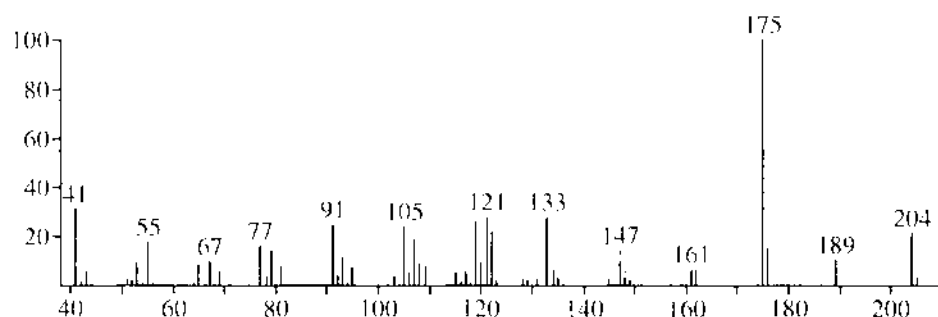
RT: 21.37 AI: 1326 KI: 1328 **Silphiperfol-5-ene**

CAS#: 138752-24-6 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 635

CN: cyclopentate(pentalene, 1,3a,4,5,5a,6,7,8-octahydro-1,2,3a,6-tetramethyl-, (1S,3aS,5aS,6R,8aR)-

Synonyms: silphiperfol-5-ene B

Source: *Echinopos giganteus* oil ex P. Weyerstahl



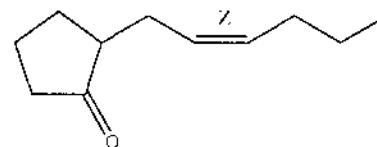
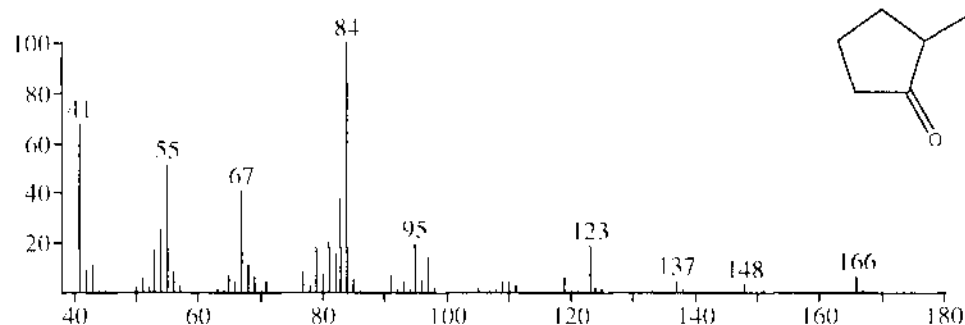
RT: 21.39 AI: 1327 KI: 1329 **Hasmigone <(Z)->**

CAS#: 000-00-0 MF: C₁₁H₁₈O FW: 166 MSD LIB#: 765

CN: cyclopentanone, 2-(2-hexenyl)-, (2Z)-

Synonyms: none

Source: Bedoukian Chem. ex Art Tucker



RT: 21.39 AI: 1327 KI: 1329 **Isobutyl benzoate**

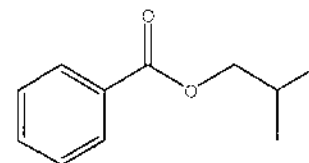
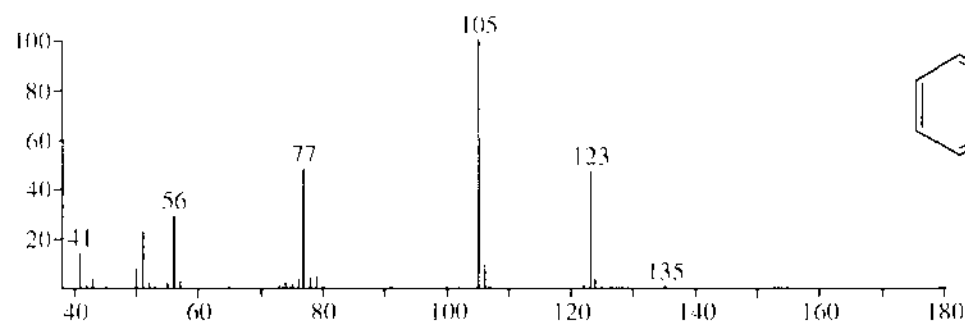
CAS#: 120-50-3 MF: C₁₁H₁₄O₂ FW: 178 MSD LIB#: 858

CN: benzoic acid, 2-methylpropyl ester

Synonyms: none

Source: Aldrich Chem.: 1.15% *Chenopodium ambrosioides*, JFOR 7:221(1995);

0.30% *Empleurum fragrans*; 0.01% *Spartium juncum* (absolute)



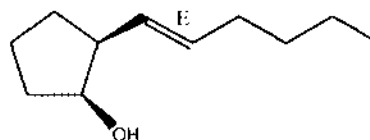
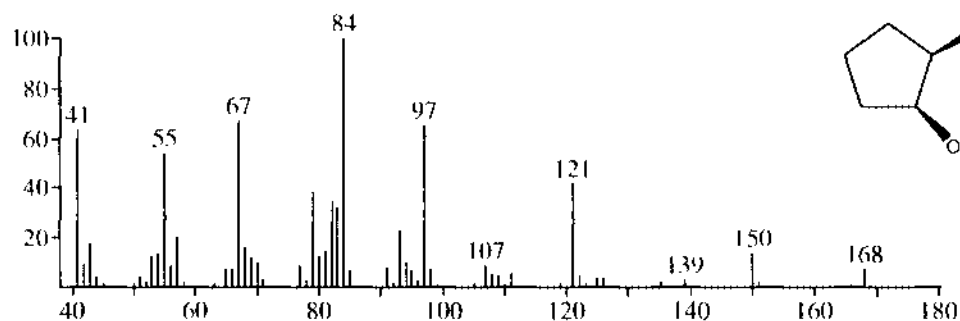
RT: 21.43 AI: 1328 KE: 1330 **Jasmonol <cis, (E)->**

CAS#: 156316-90-4 MF: C₁₁H₂₀O FW: 168 MSD LIB#: 2027

CN: cyclopentanol, 2-(1E)-hexenyl-, (1R,2R)-

Synonyms: none

Source: Bedoukian Res. ex JJ Brophy



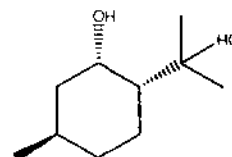
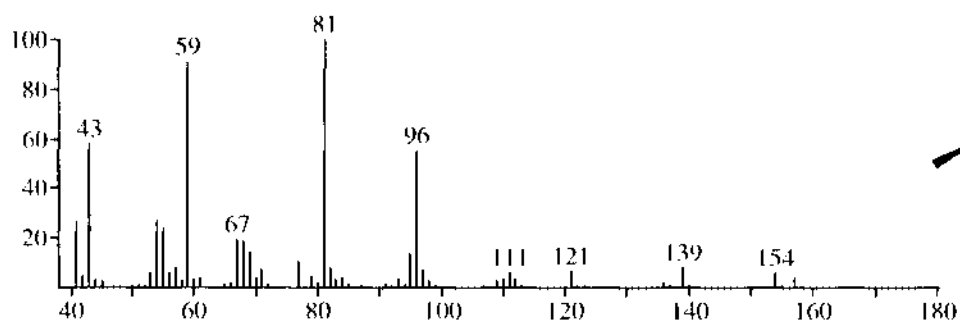
RT: 21.44 AI: 1328 KE: 1330 **Menthol <8-hydroxy-neo->**

CAS#: 3564-95-2 MF: C₁₀H₂₀O₂ FW: 172 MSD LIB#: 2015

CN: cyclohexanemethanol, 2-hydroxy- α,α ,4-trimethyl-, (1R,2S,4R)-

Synonyms: neomenthoglycol; PMD 38;

Source: ref. cpd. ex JJ Brophy



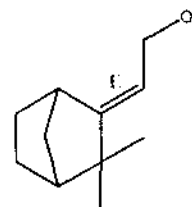
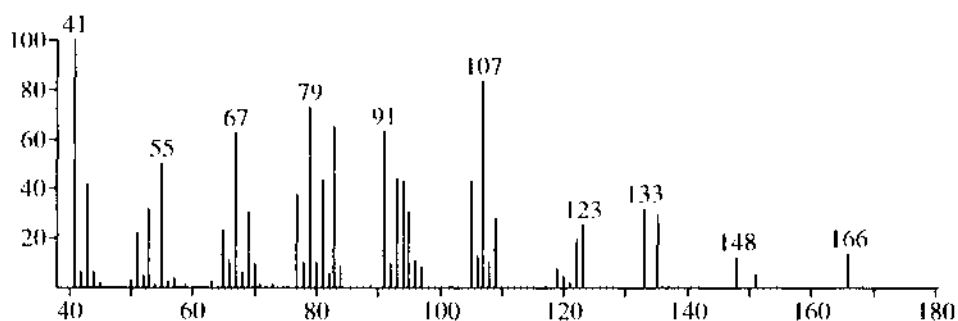
RT: 21.45 AI: 1328 KE: 1330 **Patchenol <(E)->**

CAS#: 58437-71-1 MF: C₁₁H₁₈O FW: 166 MSD LIB#: 1238

CN: ethanol, 2-(3,3-dimethylbicyclo(2.2.1)hept-2-ylidene)-, (2E)-

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl



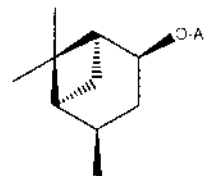
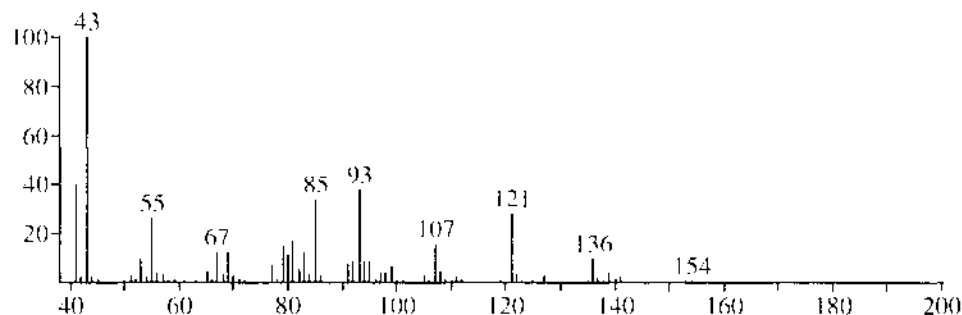
RT: 21.45 AI: 1328 KI: 1330 **Verbanol acetate <neoiso->**

CAS#: 73366-12-8 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 1543

CN: bicyclo(3.1.1)heptan-2-ol, 4,6,6-trimethyl-, acetate, (1 α ,2 β ,4 β ,5 α)-

Synonyms: none

Source: acetylation of verbanols(6314)



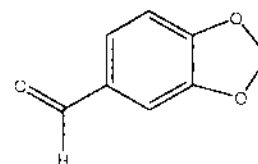
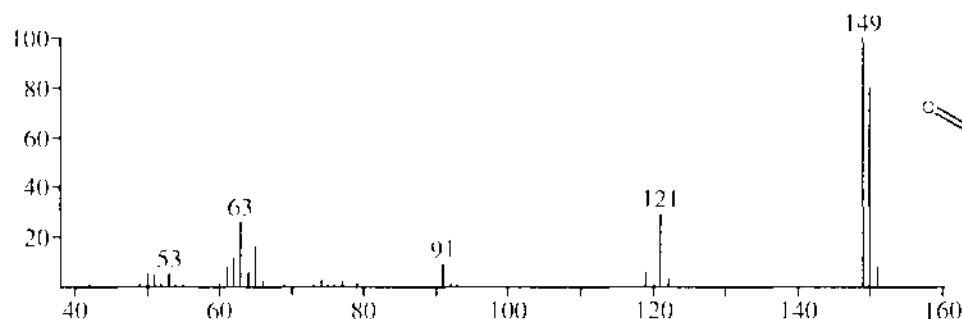
RT: 21.51 AI: 1329 KI: 1332 **Piperonal**

CAS#: 120-57-0 MF: C₈H₆O₃ FW: 150 MSD LIB#: 1331

CN: 1,3-benzodioxole-5-carboxaldehyde

Synonyms: heliotropin; geliotropin

Source: Aldrich Chem. ex H. Hills; 1.40% *Eucalyptus lehmanni*, FII 5:91(1990); 0.24% *Cinnamomum micranthum*; 0.10% *Piper nigrum*



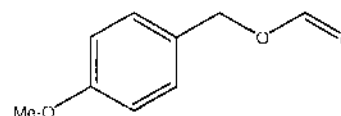
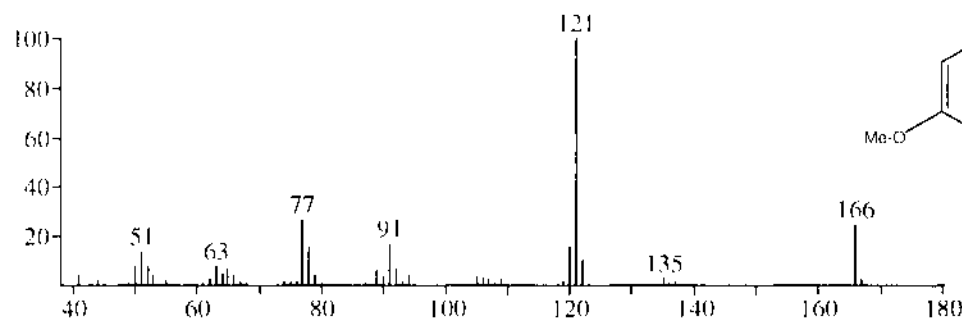
RT: 21.52 AI: 1330 KI: 1332 **Anisyl formate**

CAS#: 122-91-8 MF: C₉H₁₀O₃ FW: 166 MSD LIB#: 176

CN: benzenemethanol, 4-methoxy-, formate

Synonyms: none

Source: Aldrich Chem.



RT: 21.54 AI: 1330 KI: 1332 **Hexyl tiglate**

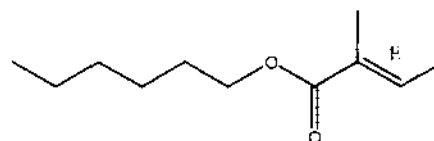
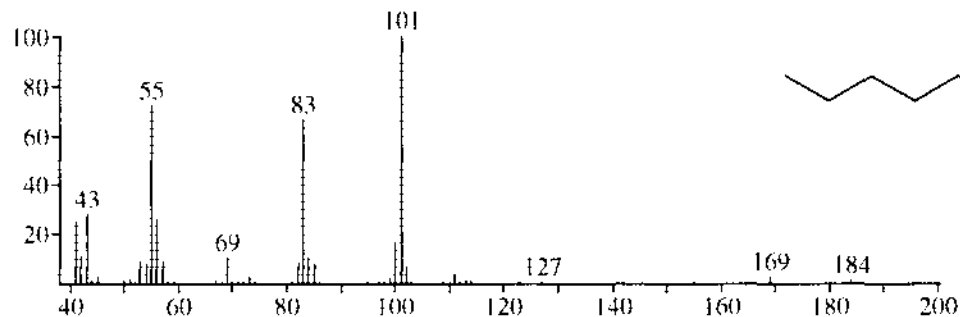
CAS#: 16930-96-4 MF: C₁₁H₂₀O₂ FW: 184 MSD LIB#: 45

CN: 2-butenic acid, 2-methyl-, hexyl ester, (E)-

Synonyms: crotonic acid, 2-methyl-, hexyl ester (E)-

Source: Aldrich Chem.: 0.46% *Lavandula angustifolia*, Perf. & Flav. 9:49(1984);

0.38% *Lavandula x hybrida*; 0.20% *Chamomilla recutita*



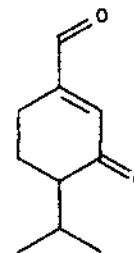
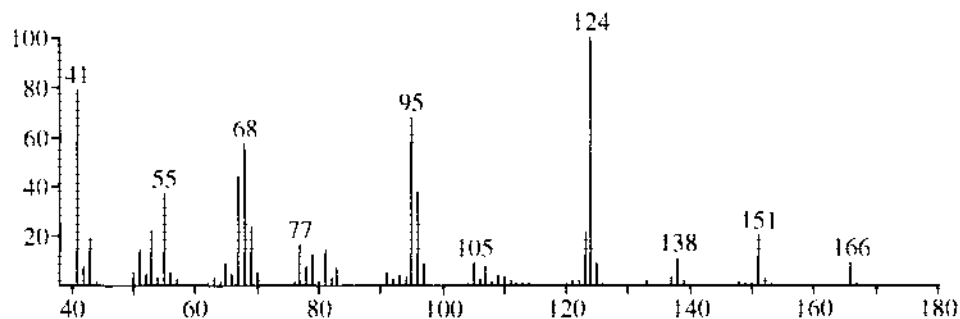
RT: 21.56 AI: 1330 KI: 1333 **Menth-1-en-7-al <3-oxo-p>**

CAS#: 160152-34-1 MF: C₁₀H₁₄O₂ FW: 166 MSD LIB#: 1422

CN: 1-cyclohexene-1-carboxaldehyde, 4-(1-methylethyl)-3-oxo-

Synonyms: none

Source: *Solidago graminifolia* oil ex P. Weyerstahl



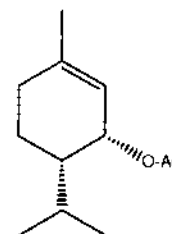
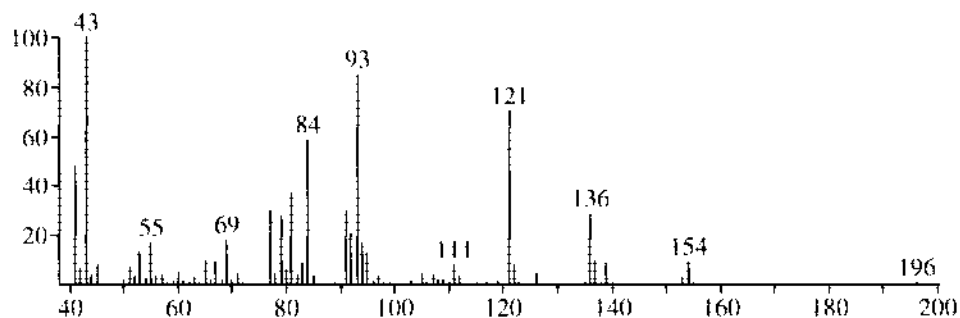
RT: 21.63 AI: 1332 KI: 1334 **Piperitol acetate <cis>**

CAS#: 112028-22-5 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 1325

CN: 2-cyclohexen-1-ol, 3-methyl-6-(1-methylethyl)-, acetate, cis-

Synonyms: none

Source: acetylation of cis-piperitol(6433)



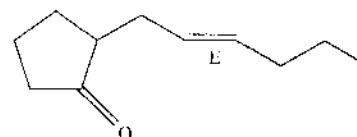
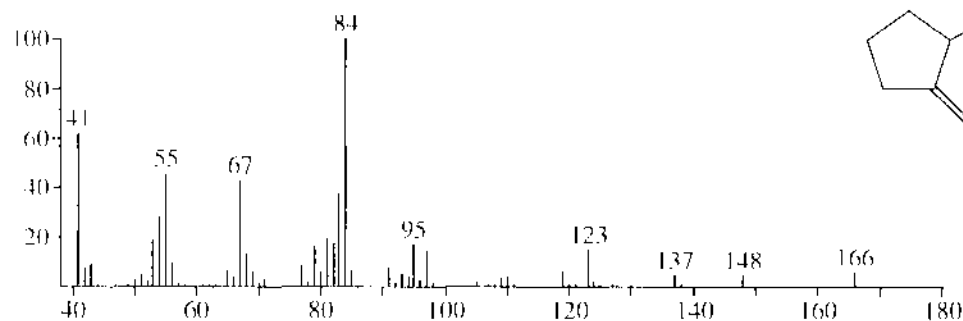
RT: 21.68 AI: 1333 KE: 1336 **Hasmigone <(E)->**

CAS#: 000-00-0 MF: C₁₁H₁₈O FW: 166 MSD LIB#: 766

CN: cyclopentanone, 2-(2-hexenyl)-, (E)-

Synonyms: none

Source: Bedoukian Res. ex Art Tucker



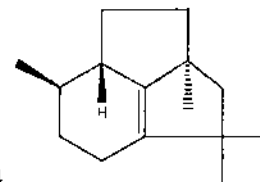
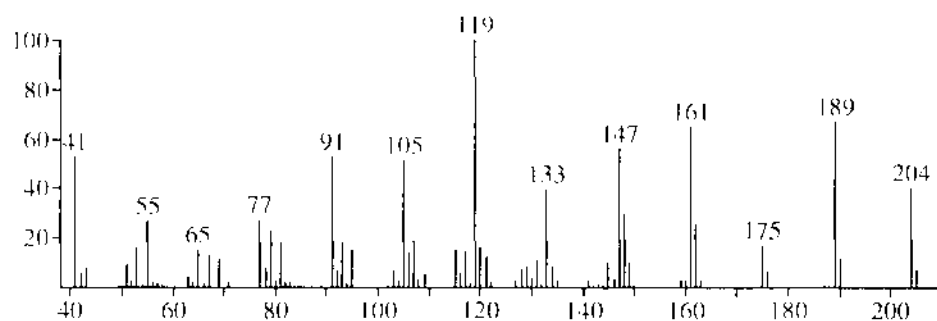
RT: 21.70 AI: 1334 KE: 1336 **Presilphiperfol-7-ene**

CAS#: 80931-09-5 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 636

CN: 1H-cyclopent(cd)indene, 2,2a,3,4,4a,5,6,7-octahydro-1,1,2a,5-tetramethyl-, (2aS,4aS,5R)

Synonyms: none

Source: *Echinopos giganteus* oil ex P. Weyerstahl



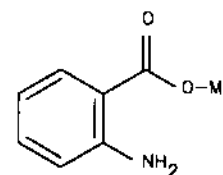
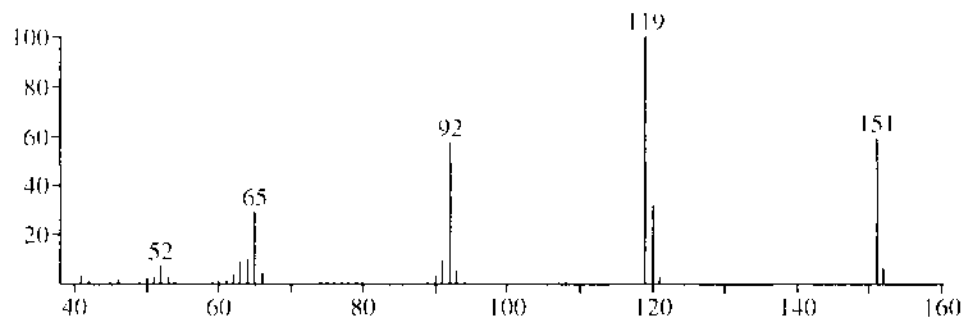
RT: 21.72 AI: 1334 KE: 1337 **Anthranilate <methyl->**

CAS#: 134-20-3 MF: C₈H₉N O₂ FW: 151 MSD LIB#: 179

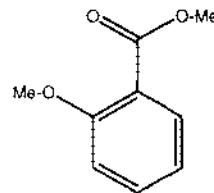
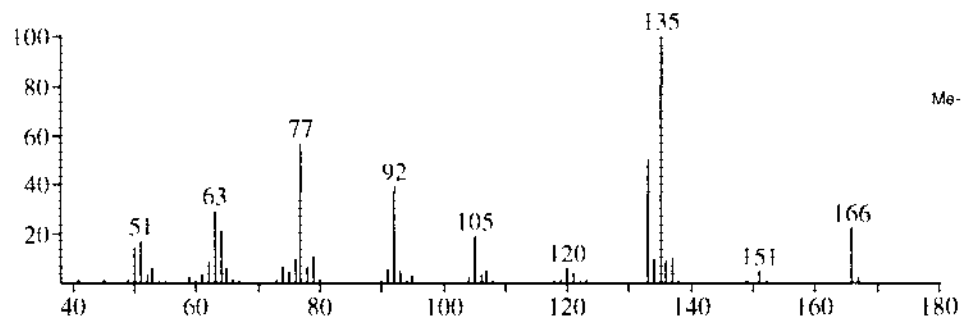
CN: benzoic acid, 2-amino-, methyl ester

Synonyms: 2-carbomethoxyaniline; methyl 2-aminobenzoate

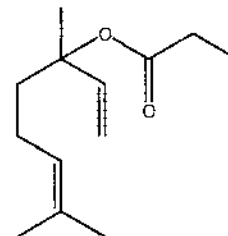
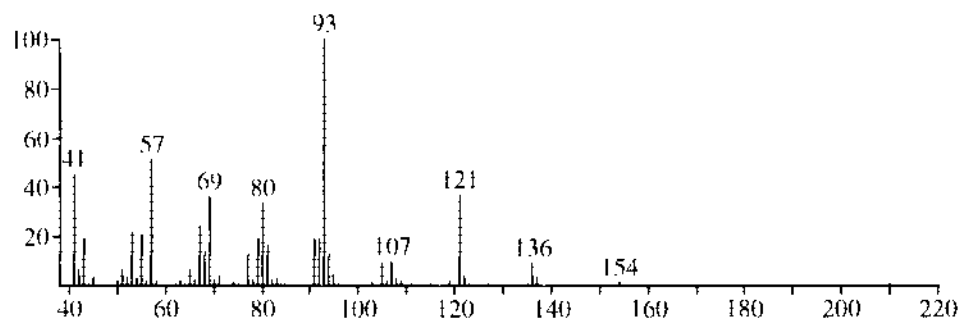
Source: Neroli oil ex Alan F. Thomas



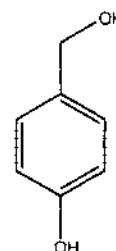
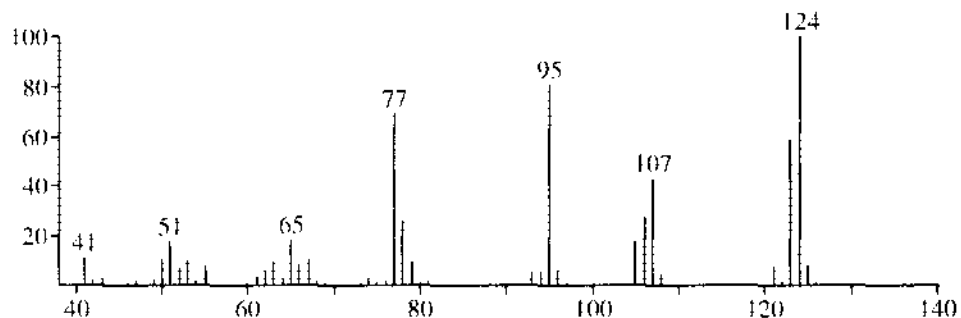
RT: 21.72 AI: 1334 KI: 1337 **Methyl o-anisate**
 CAS#: 606-45-1 MF: C₉H₁₀O₃ FW: 166 MSD LIB#: 1692
 CN: benzoic acid, 2-methoxy-, methyl ester
 Synonyms: dimethyl salicylate
 Source: Aldrich Chem.



RT: 21.73 AI: 1334 KI: 1337 **Linalool propanoate**
 CAS#: 144-39-8 MF: C₁₃H₂₂O₂ FW: 210 MSD LIB#: 1634
 CN: 1,6-octadien-3-ol, 3,7-dimethyl-, propanoate
 Synonyms: 1,6-octadien-3-ol <3,7-dimethyl, propionate>
 Source: Aldrich Chem.: 4.96% *Artemisia afra*. Pharmazie 49:935(1994);
 0.36% *Citrus limon*; 0.12% *Lavandula angustifolia*



RT: 21.76 AI: 1335 KI: 1337 **Benzenemethanol <4-hydroxy->**
 CAS#: 623-05-2 MF: C₇H₈O₂ FW: 124 MSD LIB#: 1998
 CN: benzenemethanol, 4-hydroxy-
 Synonyms: gastrodigenin; p-methylolphenol; α-hydroxy-p-cresol
 Source: Aldrich Chem. ex JJ Brophy



RT: 21.77 AI: 1335 KI: 1338 **Elemene <δ>**

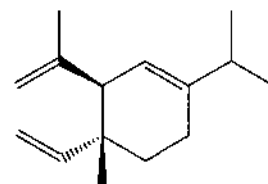
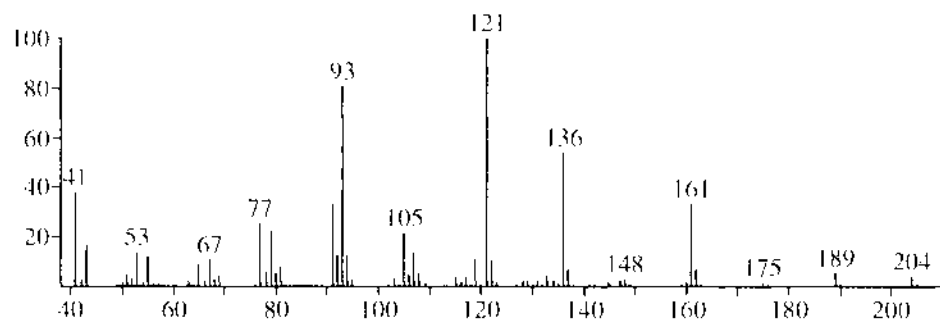
CAS#: 20307-84-0 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 308

CN: cyclohexene, 4-ethenyl-4-methyl-3-(1-methylethenyl)-1-(1-methylethyl)-, 3R-(trans-)

Synonyms: p-menth-3-ene, 2-isopropenyl-1-vinyl, trans-

Source: Black pepper distillation; 28.79% *Commiphora myrrha*, 9th Int. Cong. of Ess. Oils.

Paper #400, Singapore (1983); 6.40% *Baccharis dracunculifolia*; 5.27% *Myrica cerifera* (leaf)



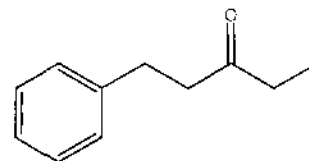
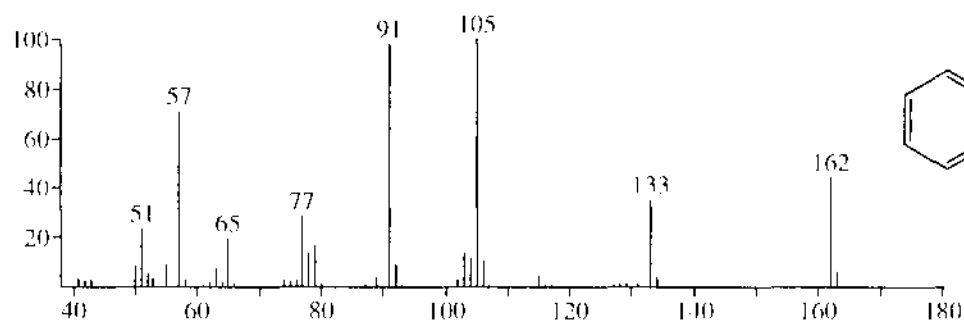
RT: 21.80 AI: 1336 KI: 1338 **Phenyl pentan-3-one <I>**

CAS#: 20795-51-1 MF: C₁₁H₁₄O FW: 162 MSD LIB#: 119

CN: 3-pentanone, 1-phenyl-

Synonyms: ethyl phenethyl ketone

Source: *Anomyrtus meli* oil ex P. Weyerstahl



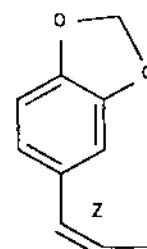
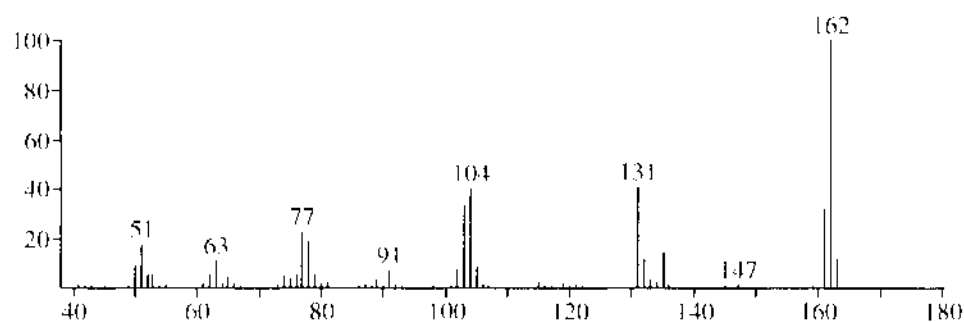
RT: 21.82 AI: 1336 KI: 1339 **Isosafrole <Z>**

CAS#: 17627-76-8 MF: C₁₀H₁₀O₂ FW: 162 MSD LIB#: 886

CN: benzodioxole <5-(1Z-propenyl)-1,3>

Synonyms: none

Source: Aldrich Chem.



RT: 21.85 AI: 1337 KI: 1340 **Evodone**

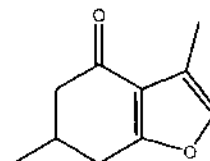
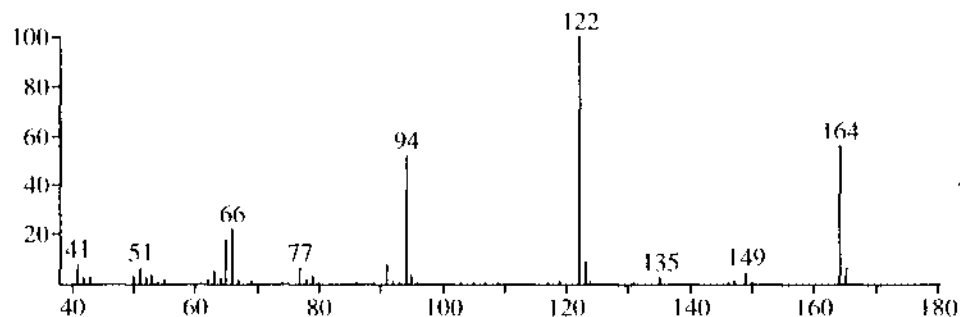
CAS#: 30557-66-5 MF: C₁₀H₁₂O₂ FW: 164 MSD LIB#: 702

CN: 4(5H)-benzofuranone, 6,7-dihydro-3,6-dimethyl-

Synonyms: p-mentha-4,8-dien-3-one, 5,9-epoxy-

Source: *Euodia hortensis* oil ex JJ Brophy; 44.00% *Euodia hortensis* (flower).

FFJ 1:17(1985); 25.00% *Euodia hortensis* (leaf); 0.80% *Dracocephalum kotschy*



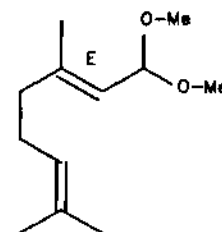
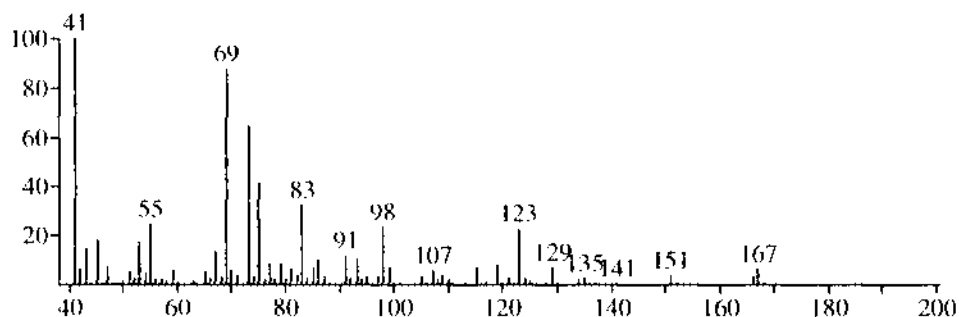
RT: 21.90 AI: 1338 KI: 1341 **Citral <dimethoxy-(E)->**

CAS#: 75128-98-2 MF: C₁₂H₂₂O₂ FW: 198 MSD LIB#: 452

CN: 2,6-octadiene, 1,1-dimethoxy-3,7-dimethyl-, (E)-

Synonyms: dimethoxy geraniol

Source: Aldrich Chem. ex Art Tucker



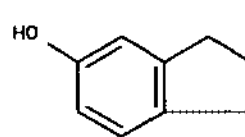
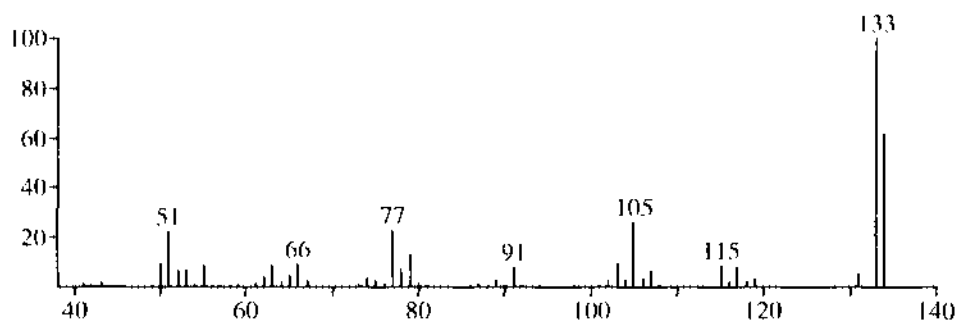
RT: 21.90 AI: 1338 KI: 1341 **Indanol <5->**

CAS#: 1470-94-6 MF: C₉H₁₀O FW: 134 MSD LIB#: 838

CN: 1H-inden-5-ol, 2,3-dihydro-

Synonyms: 5-hydroxyindane

Source: Aldrich Chem.



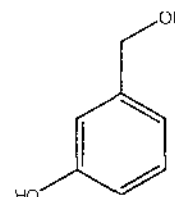
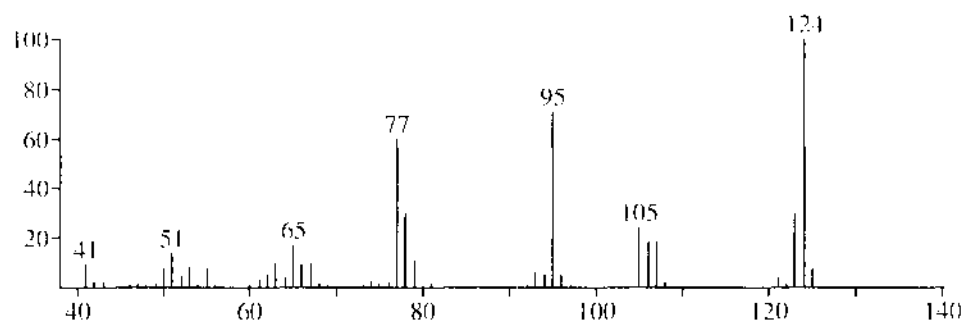
RT: 21.92 AI: 1339 KI: 1341 **Benzenemethanol <3-hydroxy->**

CAS#: 620-24-6 MF: C₇H₈O₂ FW: 124 MSD LIB#: 2001

CN: benzenemethanol, 3-hydroxy-

Synonyms: hydroxybenzyl alcohol, 3-

Source: Aldrich Chem. ex JJ Brophy



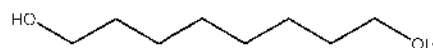
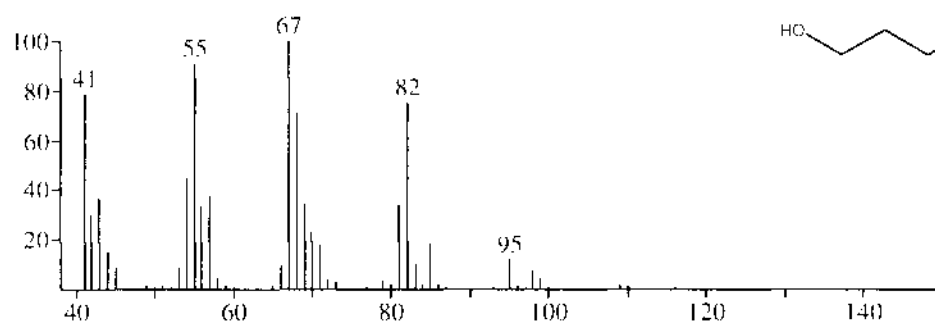
RT: 21.92 AI: 1339 KI: 1341 **Octanediol <2,4->**

CAS#: 629-41-4 MF: C₈H₁₈O₂ FW: 146 MSD LIB#: 2008

CN: 1,8-octanediol

Synonyms: none

Source: Pfaltz & Bauer ex JJ Brophy



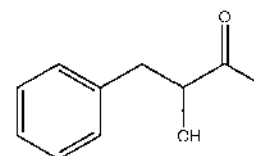
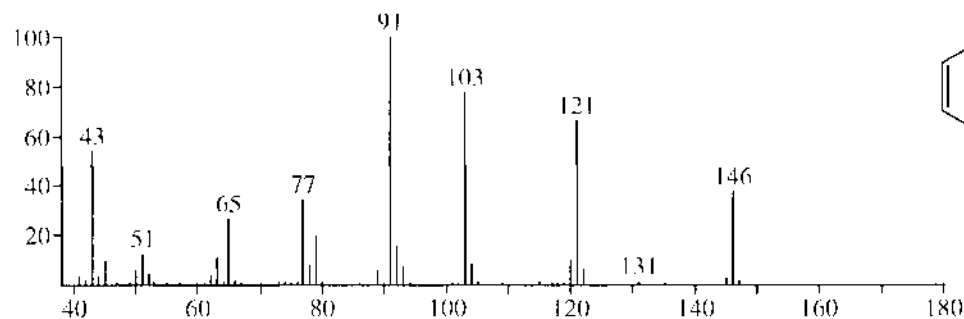
RT: 21.95 AI: 1339 KI: 1342 **Butanone <3-hydroxy-4-phenyl-2->**

CAS#: 5355-63-5 MF: C₁₀H₁₂O₂ FW: 164 MSD LIB#: 1112

CN: 2-butanone, 3-hydroxy-4-phenyl-

Synonyms: none

Source: *Mimusops elengi* ex KC Wong, Malaysia



RT: 21.95 AI: 1339 KI: 1342 **Carvyl acetate <trans>**

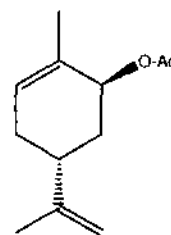
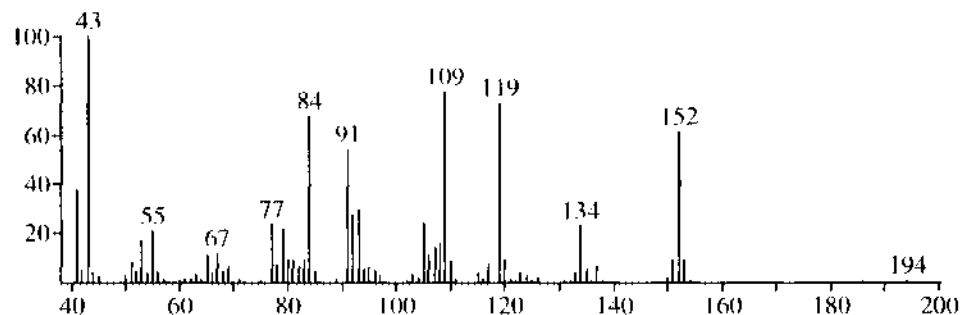
CAS#: 1134-95-8 MF: C₁₂H₁₈O₂ FW: 194 MSD LIB#: 368

CN: 2-cyclohexen-1-ol, 2-methyl-5-(1-methylethenyl)-, acetate, trans-

Synonyms: p-mentha-6,8-dien-2-ol, acetate, trans-

Source: SCM Chems. ex H. Hills; 5.90% *Mentha spicata*. FFI 1:105(1986);

0.99% *Mentha aquatica* x *viridis*; 0.84% *Hyptis mutabilis*



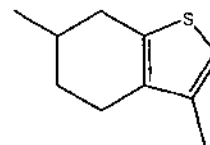
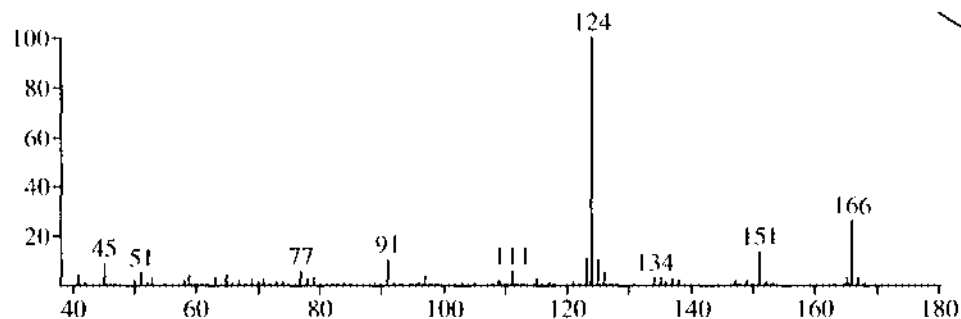
RT: 21.96 AI: 1340 KI: 1342 **Mentho thiophene**

CAS#: 103275-89-4 MF: C₁₀H₁₄S FW: 166 MSD LIB#: 2193

CN: benzo(b)thiophene, 4,5,6,7-tetrahydro-3,6-dimethyl-

Synonyms: none

Source: ref. epd. ex P. Weyerstahl



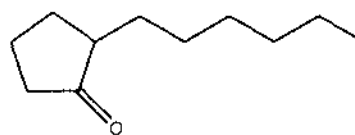
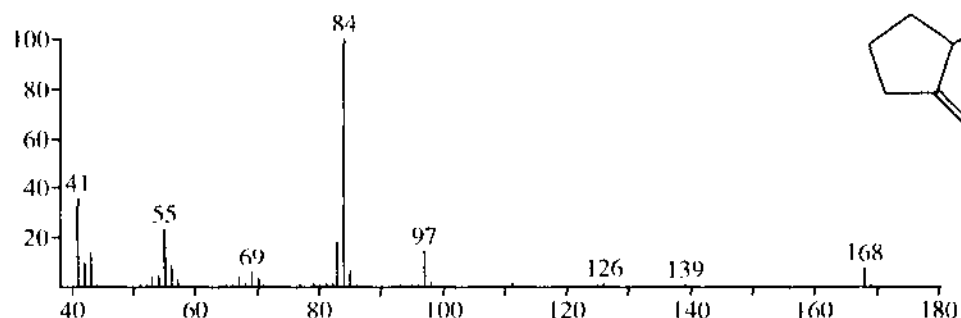
RT: 21.97 AI: 1340 KI: 1342 **Dihydroisojasmone**

CAS#: 13074-65-2 MF: C₁₁H₂₀O FW: 168 MSD LIB#: 2138

CN: cyclopentanone, 2-hexyl-

Synonyms: jasmalone

Source: Bedoukian Res.



RT: 21.98 AI: 1340 KI: 1343 **Piperitenone**

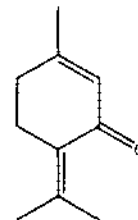
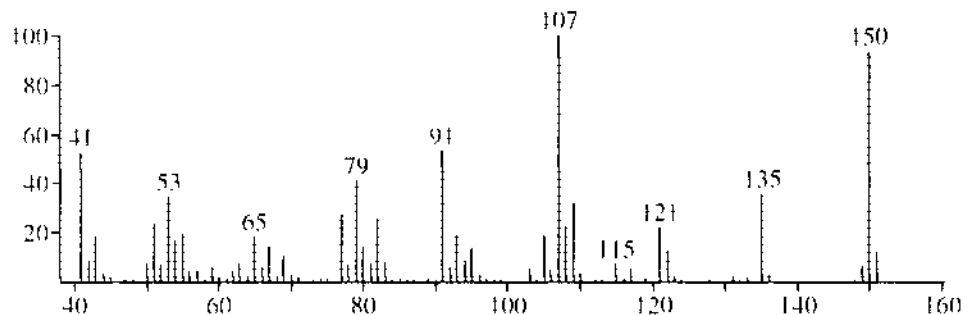
CAS#: 491-09-8 MF: C₁₀H₁₄O FW: 150 MSD LIB#: 1064

CN: 2-cyclohexen-1-one, 3-methyl-6-(1-methylethylidene)-

Synonyms: pulespenone; 3-terpinolenone

Source: *Mentha verticillata* oil ex M. Maffei, Italy: 40.40% *Calamintha nepeta*,

HEOR 3:7(1991); 34.00% *Mentha cervina*: 14.70% *Ziziphora hispanica*



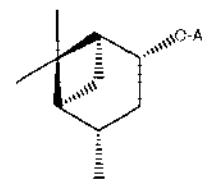
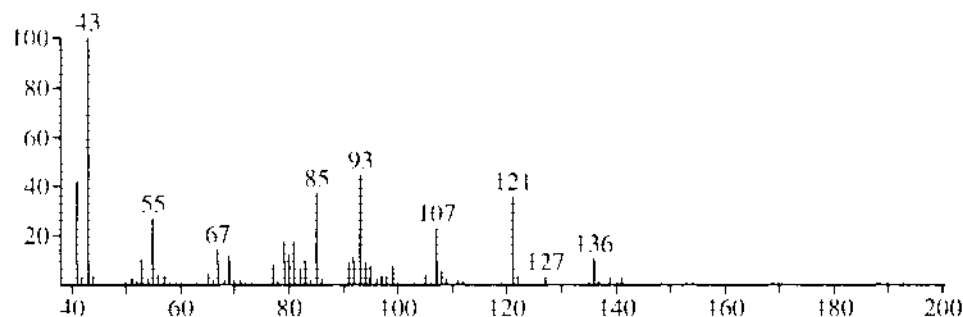
RT: 22.00 AI: 1340 KI: 1343 **Verbanol acetate**

CAS#: 73366-09-3 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 1540

CN: bicyclo(3.1.1)heptan-2-ol, 4,6,6-trimethyl-, acetate, (1 α ,2 α ,4 α ,5 α)-

Synonyms: none

Source: acetylation of verbanols(6314)



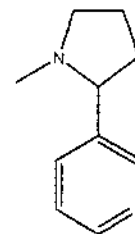
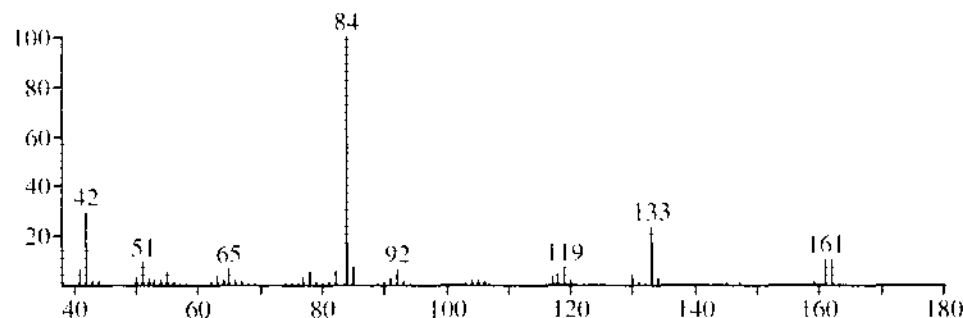
RT: 22.09 AI: 1342 KI: 1345 **Nicotine**

CAS#: 54-11-5 MF: C₁₀H₁₄N₂ FW: 162 MSD LIB#: 1150

CN: pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-

Synonyms: none

Source: Aldrich Chem.: 25.92% *Nicotiana rustica* (flower), HEOR 7:265(1995)



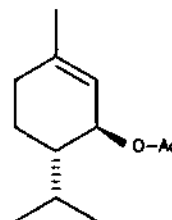
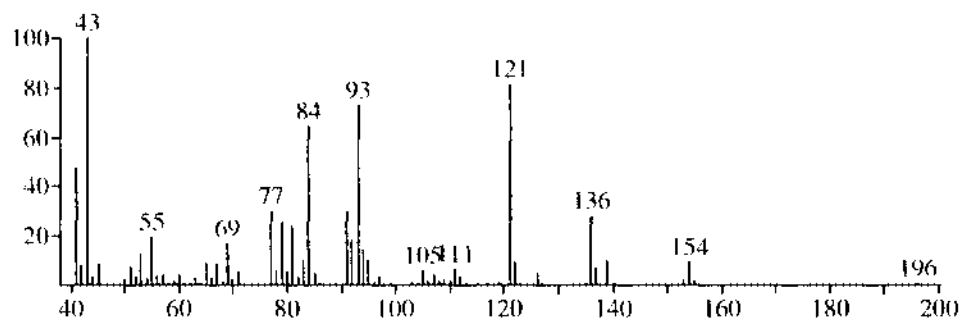
RT: 22.10 AI: 1343 KI: 1346 **Piperitol acetate <trans->**

CAS#: 91159-15-8 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 1326

CN: 2-cyclohexen-1-ol, 3-methyl-6-(1-methylethyl)-, acetate, trans-

Synonyms: none

Source: acetylation of trans-piperitol(6433)



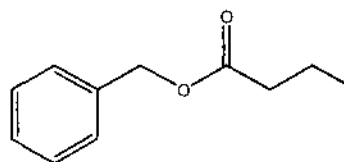
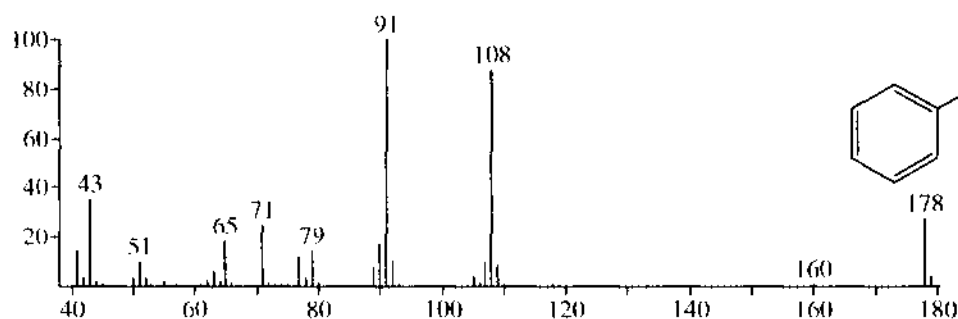
RT: 22.13 AI: 1343 KI: 1346 **Benzyl butanoate**

CAS#: 103-37-7 MF: C₁₁H₁₄O₂ FW: 178 MSD LIB#: 74

CN: butanoic acid, phenylmethyl ester

Synonyms: benzyl butyrate

Source: Aldrich Chem.



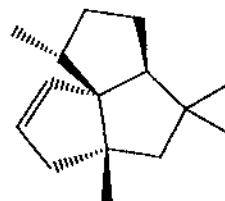
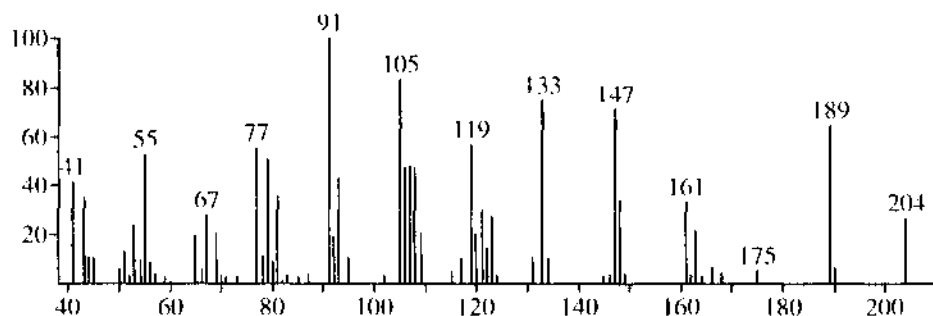
RT: 22.18 AI: 1345 KI: 1347 **Silphinene**

CAS#: 74284-57-4 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 2167

CN: cyclopenta(c)pentalene, 1,2,3,3a,4,5,5a,6-octahydro-1,4,4,5a-tetramethyl-, [1R-(1α,3α,5aβ,8aR*)]-

Synonyms: none

Source: *Artemisia anna* roots, Vietnam ex HJ Woerdenbag



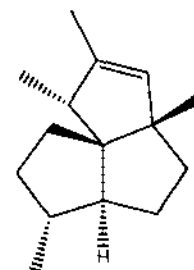
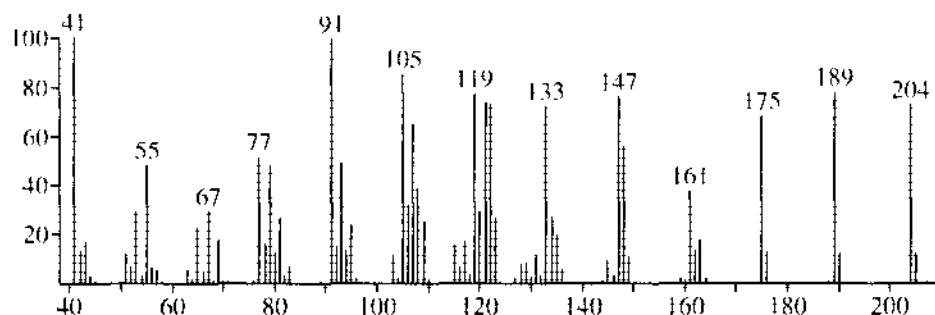
RT: 22.20 AI: 1345 KI: 1348 **Silphiperfol-5-ene <7-epi>**

CAS#: 138752-23-5 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 637

CN: cyclopentate)pentalene, 1,3a,4,5,5a,6,7,8-octahydro-1,2,3a,6-tetramethyl-, (1R,3aS,5aS,6R,8aR)-

Synonyms: none

Source: *Echinopos giganteus* oil ex P. Weyerstahl



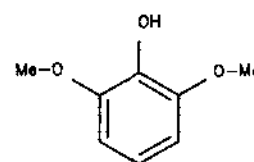
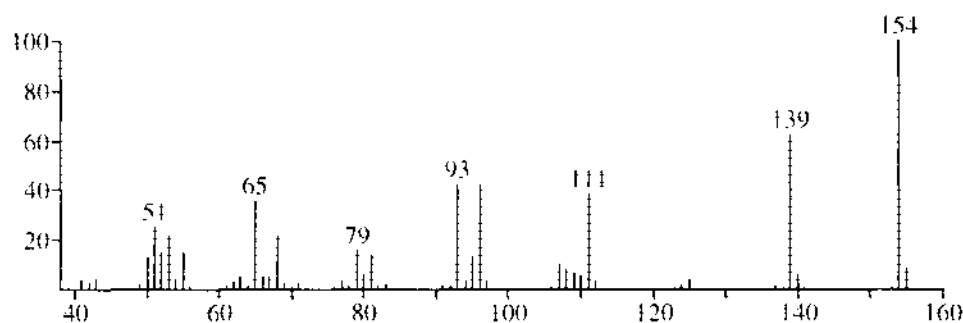
RT: 22.24 AI: 1346 KI: 1349 **Phenol <2,6-dimethoxy>**

CAS#: 91-10-1 MF: C₈H₁₀O₃ FW: 154 MSD LIB#: 1269

CN: phenol, 2,6-dimethoxy-

Synonyms: syringol

Source: ref. cpd. ex E. von Rudloff



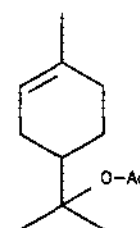
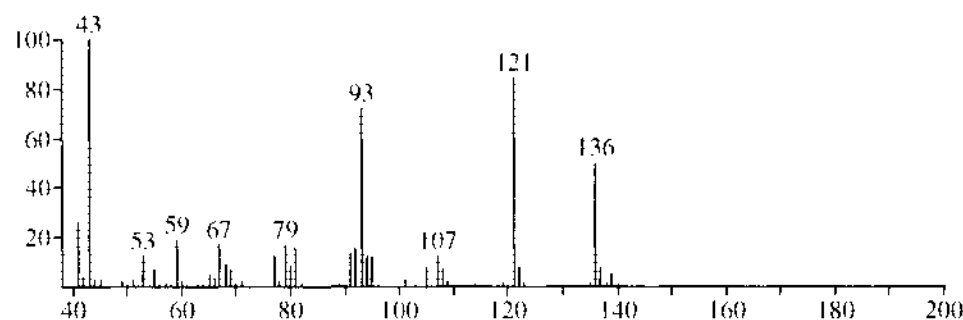
RT: 22.26 AI: 1346 KI: 1349 **Terpinyl acetate <α>**

CAS#: 80-26-2 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 948

CN: 3-cyclohexene-1-methanol, α,α,4-trimethyl-, acetate

Synonyms: p-menth-1-en-8-ol, acetate

Source: *Juniperus squamata*, India, oil ex P. Weyerstahl: 43.00% *Elettaria cardamomum*,
Phytochem. 10:177(1971); 30.50% *Eucalyptus diversicolor*; 26.90% *Lavendula x hybrida*



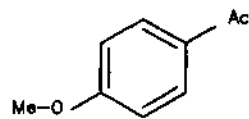
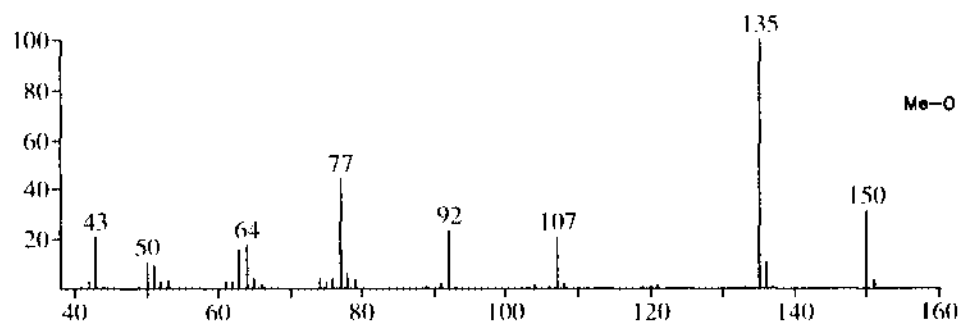
RT: 22.30 AI: 1347 KI: 1350 **Acetophenone <4'-methoxy->**

CAS#: 100-06-1 MF: C₉H₁₀O₂ FW: 150 MSD LIB#: 10

CN: ethanone, 1-(4-methoxyphenyl)-

Synonyms: 4-acetylanisole; linarodin; acetanisole, p-

Source: Aldrich Chem.



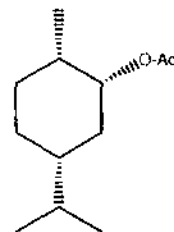
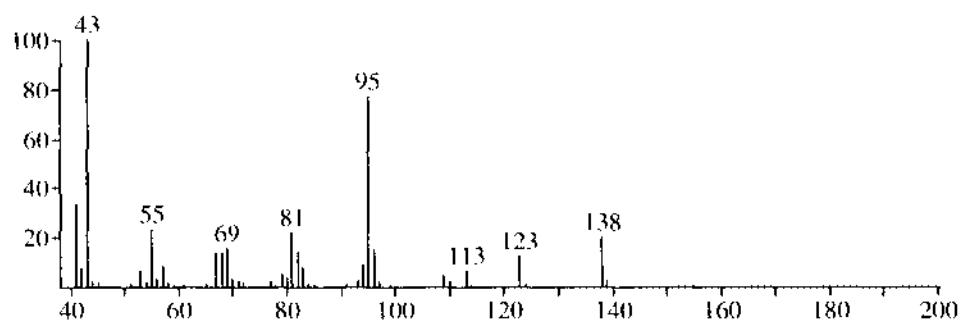
RT: 22.30 AI: 1347 KI: 1350 **Carvomenthyl acetate <neoiso->**

CAS#: 20777-43-9 MF: C₁₂H₂₂O₂ FW: 198 MSD LIB#: 373

CN: cyclohexanol, 2-methyl-5-(1-methylethyl)-, acetate, (1 α ,2 α ,5 α)-

Synonyms: p-menthan-2-ol, acetate

Source: ref. cpd., ex E. von Rudloff



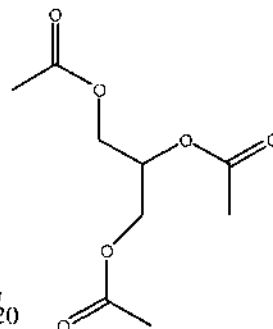
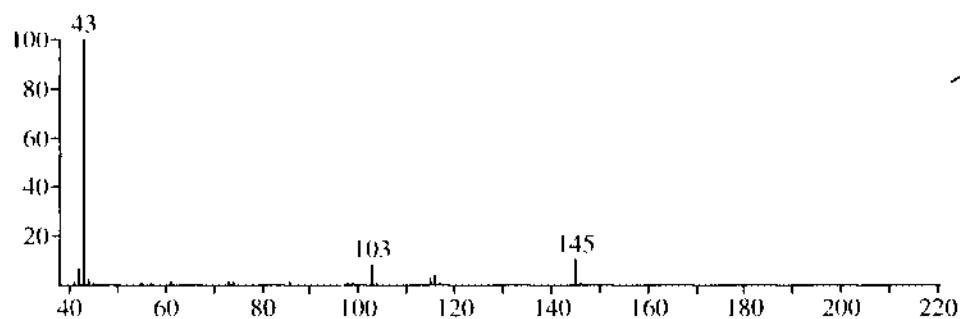
RT: 22.31 AI: 1347 KI: 1350 **Triacetin**

CAS#: 102-76-1 MF: C₉H₁₄O₆ FW: 218 MSD LIB#: 1700

CN: 1,2,3-propanetriol, triacetate

Synonyms: glycerol triacetate, vanay, Kodaflex triacetin

Source: Aldrich Chem.



RT: 22.33 AI: 1345 KI: 1348 **Cubebene <α>**

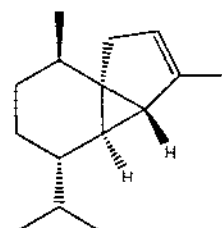
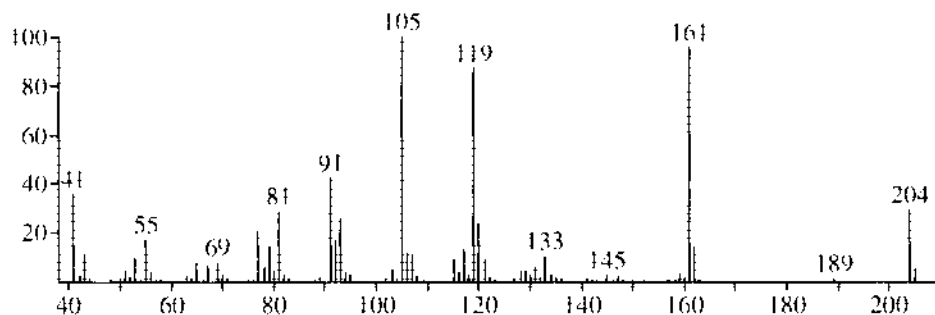
CAS#: 17699-14-8 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 826

CN: 1H-cyclopenta(1,3)cyclopropan(1,2)benzene, 3a,3b,4,5,6,7-hexahydro-3,7-dimethyl-4-(1-methylethyl)-, (3aS-(3αa,3bβ,4β,7α,7aS*))-

Synonyms: none

Source: *Hymenaea* oil ex Jean Langenheim #5439: 22.50% *Heterotheca inuloides*.

FIJ 11:49(1996); 8.00% *Cedrela odorata*; 7.10% *Piper cubeba*



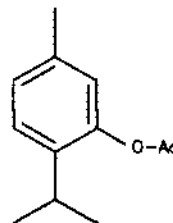
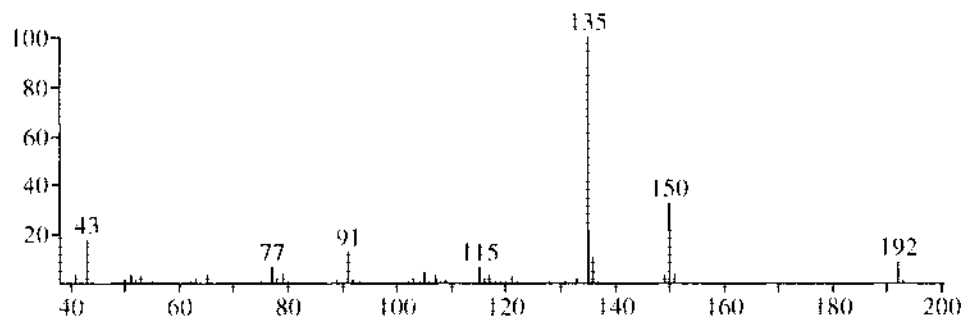
RT: 22.38 AI: 1349 KI: 1352 **Thymol acetate**

CAS#: 528-79-0 MF: C₁₂H₁₆O₂ FW: 192 MSD LIB#: 1227

CN: phenol, 5-methyl-2-(1-methylethyl)-, acetate

Synonyms: none

Source: acetylation of oregano oil(5430)



RT: 22.41 AI: 1350 KI: 1352 **Citronellyl acetate**

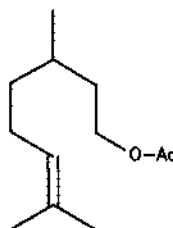
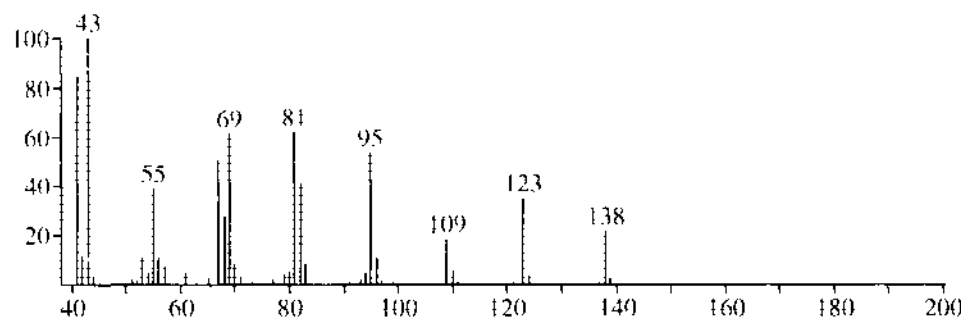
CAS#: 150-84-5 MF: C₁₂H₂₂O₂ FW: 198 MSD LIB#: 1364

CN: 6-octen-1-ol, 3,7-dimethyl-, acetate

Synonyms: none

Source: Rose oil (acetylated) ex Firmenich ex AF Thomas; 64.87% *Terminalia bentzoe*.

JEOR 6:533(1994); 44.45% *Dracaena reflexa*; 18.00% *Ducrosia anethifolia*



RT: 22.41 AI: 1350 KI: 1352 **Longipinene <α>**

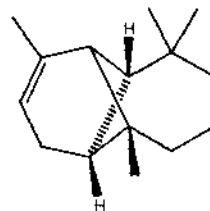
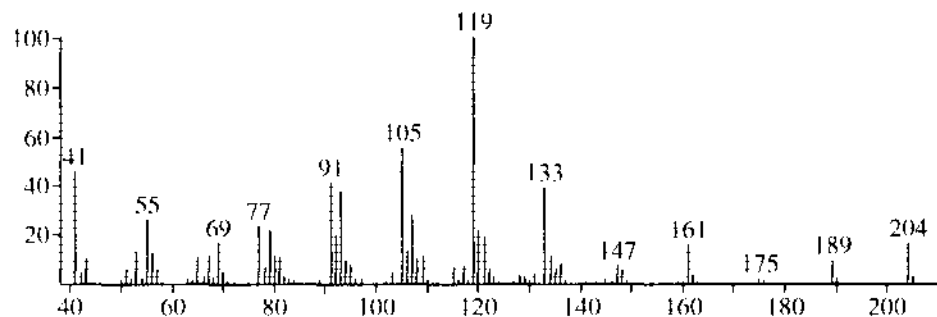
CAS#: 5989-08-2 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1032

CN: tricyclo(5.4.0.0^{2,8})undec-9-ene, 2,6,6,9-tetramethyl-, stereoisomer

Synonyms: none

Source: Fluka Chem.: 1.34% *Santolina chamaecyparissus*, Dragoco Rept. 39:151(1992);

0.90% *Pinus sibirica*; 0.65% *Schinus lentiscifolius*



RT: 22.47 AI: 1351 KI: 1354 **Phenyl ethyl propanoate <2>**

CAS#: 122-70-3 MF: C₁₁H₁₄O₂ FW: 178 MSD LIB#: 1280

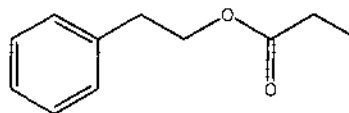
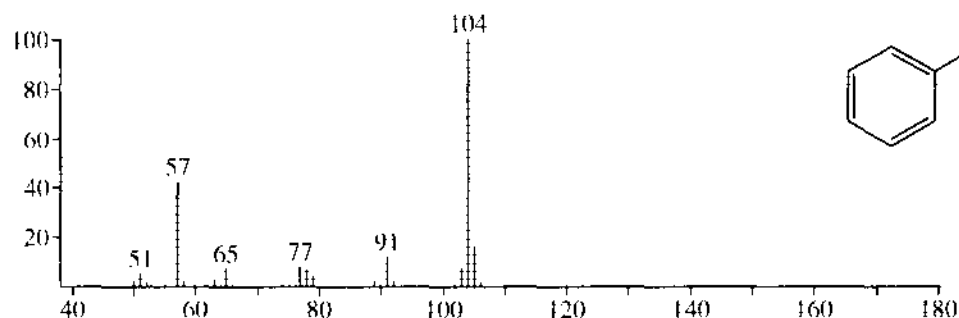
CN: propanoic acid, 2-phenylethyl ester

Synonyms: benzylcarbinyl propionate

Source: Aldrich Chem. ex H. Hills: 0.12% *Michelia alba*, p.14; in: Aromatic

Plants & Essential Constituents, Pease Book Co., Hong Kong(1993);

0.01% *Pelargonium graveolens*; 0.01% *Spartium junceum*



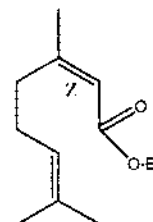
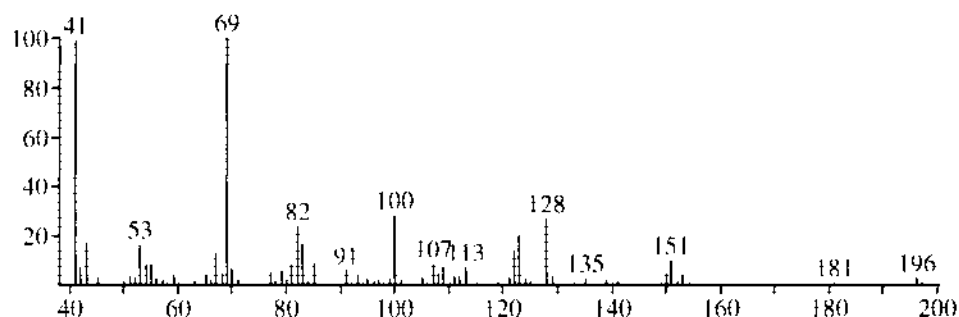
RT: 22.48 AI: 1351 KI: 1354 **Ethyl nerolate**

CAS#: 32659-20-4 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 670

CN: 2,6-octadienoic acid, 3,7-dimethyl-, ethyl ester (Z)-

Synonyms: ethyl (Z)-geranate

Source: Bedoukian Res. ex Art Tucker



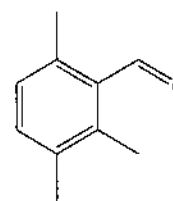
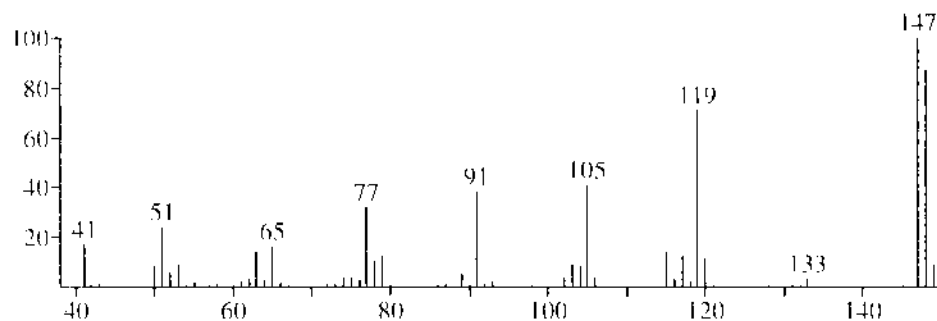
RT: 22.51 AI: 1352 KE: 1355 **Trimethyl benzaldehyde <2,3,6->**

CAS#: 34341-29-2 MF: C₁₀H₁₂O FW: 148 MSD LIB#: 661

CN: benzaldehyde, 2,3,6-trimethyl-

Synonyms: none

Source: *Erygium foetidum* oil ex KC Wong, Malaysia



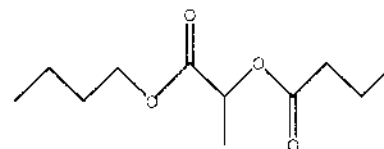
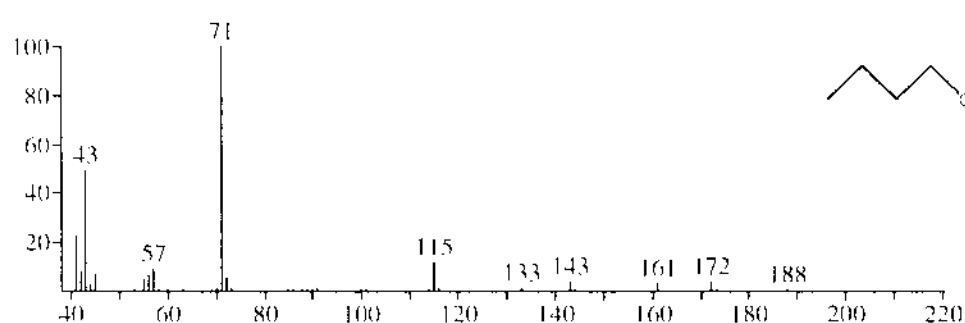
RT: 22.57 AI: 1353 KE: 1356 **Butyl butyryl lactate**

CAS#: 7492-70-8 MF: C₁₁H₂₀O₄ FW: 216 MSD LIB#: 2184

CN: butanoic acid, 2-butoxy-1-methyl-2-oxoethyl ester

Synonyms: lactic acid, butyl ester, butyrate

Source: Bedoukian Res.



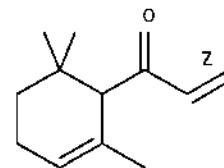
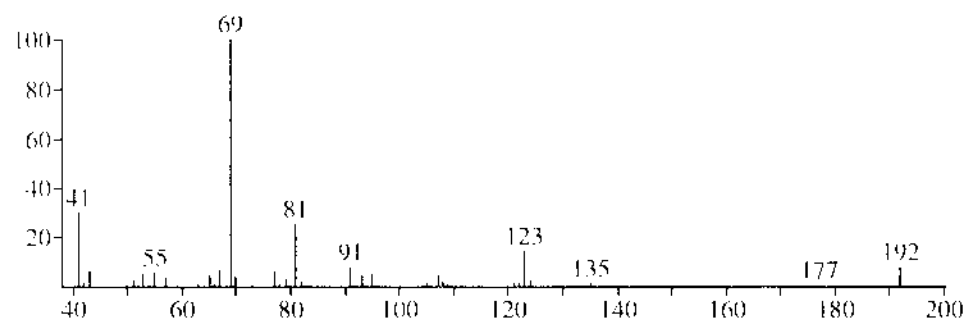
RT: 22.64 AI: 1355 KE: 1358 **Damascone <(Z)-α->**

CAS#: 57549-93-6 MF: C₁₃H₂₀O FW: 192 MSD LIB#: 555

CN: 2-buten-1-one, 1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-, (Z)-

Synonyms: none

Source: Firmenich ex Jian-Qin Cu, Kunming



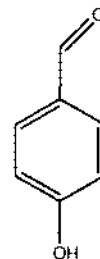
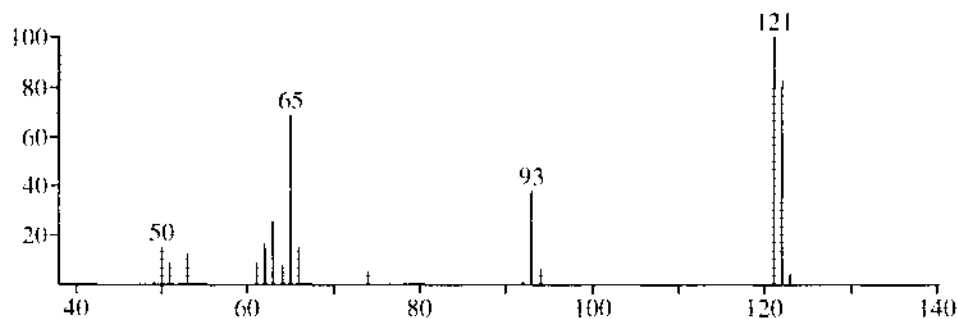
RT: 22.65 AI: 1355 K1: 1358 **Hydroxybenzaldehyde <4->**

CAS#: 123-08-0 MF: C₇H₆O₂ FW: 122 MSD LIB#: 1594

CN: benzaldehyde, 4-hydroxy-

Synonyms: p-formylphenol, benzaldehyde, p-hydroxy-

Source: Aldrich Chem.; 8.50% *Vanilla fragrans*, Int. Flav. Food Addit. 7:272(1976)



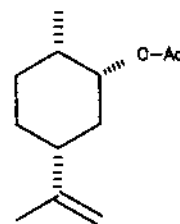
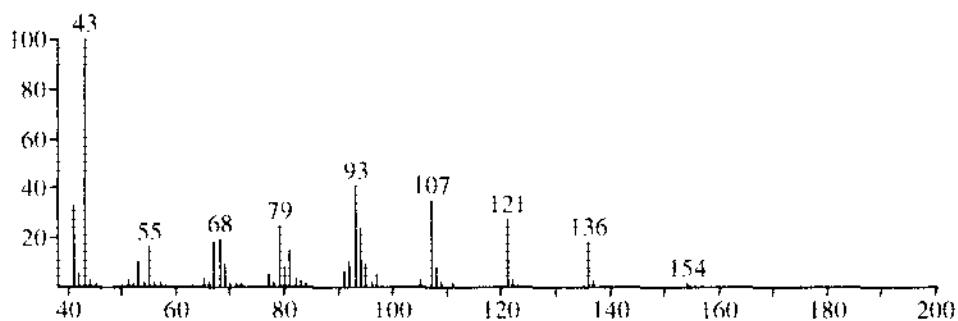
RT: 22.69 AI: 1356 K1: 1359 **Dihydro carveol acetate <neoiso->**

CAS#: 256332-36-2 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 599

CN: cyclohexanol, 2-methyl-5-(1-methylethyl)-, acetate, (1R,2S,5R)-

Synonyms: none

Source: ref. cpd. ex E. von Rudloff



RT: 22.70 AI: 1356 K1: 1359 **Eugenol**

CAS#: 97-53-0 MF: C₁₀H₁₂O₂ FW: 164 MSD LIB#: 1095

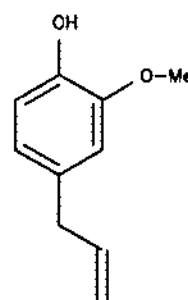
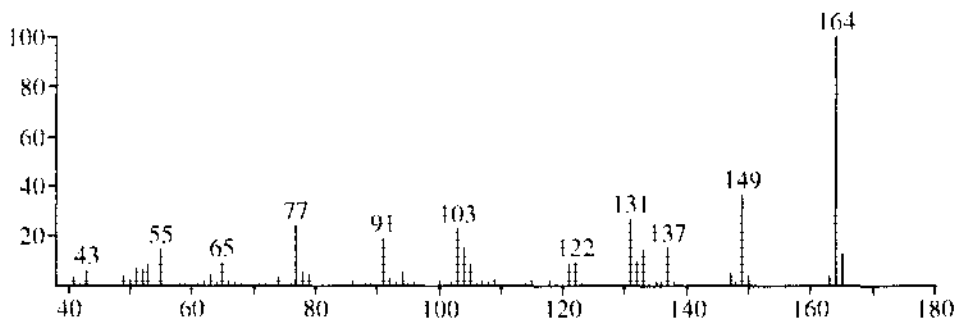
CN: methoxy-4-(2-propenyl)phenyl <2->

Synonyms: 4-allylguaiacol

Source: K & K Chem. ex H. Hills; 95.00% *Eugenia caryophyllus* (leaf).

Parfum Cosmet. Aromes. 89:81(1989); 92.50% *Eugenia caryophyllus* (stem);

87.00% *Pimenta dioica*



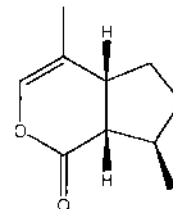
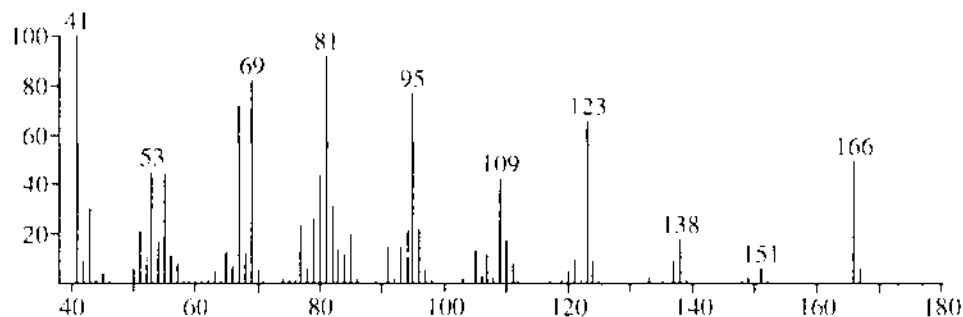
RT: 22.73 AI: 1357 KI: 1360 **Nepetalactone <4 α ,7 α ,7 α >**

CAS#: 21651-62-7 MF: C₁₀H₁₄O₂ FW: 166 MSD LIB#: 1134

CN: cyclopentate)pyran-1(4 α H)-one, 5,6,7,7 α -tetrahydro-4,7-dimethyl-(4 α S-(4 α ,7 α ,7 α))-

Synonyms: nepetalactone, cis, trans-

Source: *Nepeta caesarea* oil ex Husnu Baser



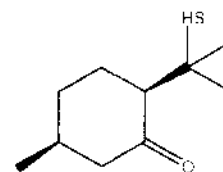
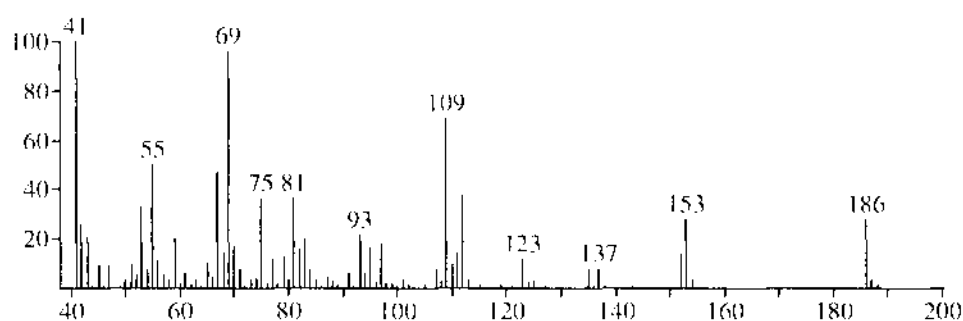
RT: 22.74 AI: 1357 KI: 1360 **Mentha-8-thiol-3-one <cis-p>**

CAS#: 33284-96-7 MF: C₁₀H₁₈O S FW: 186 MSD LIB#: 1636

CN: cyclohexanone, 2-(1-mercapto-1-methylethyl)-5-methyl-, cis-

Synonyms: none

Source: Aldrich Chem.



RT: 22.74 AI: 1357 KI: 1360 **Undecenal <(2E)>**

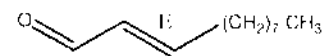
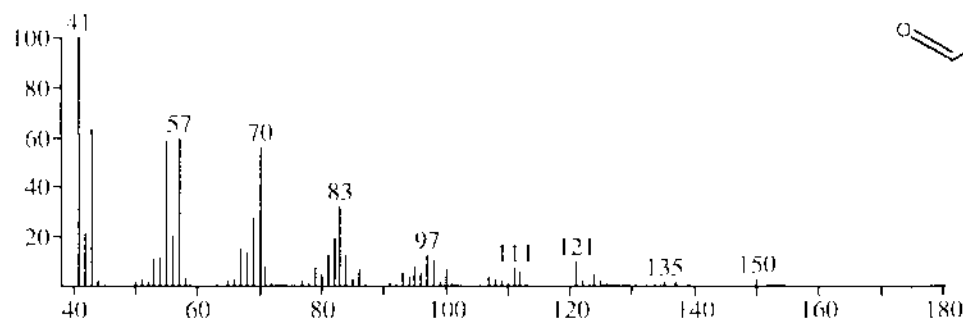
CAS#: 53448-07-0 MF: C₁₁H₂₀O FW: 168 MSD LIB#: 2130

CN: 2-undecenal, (2E)-

Synonyms: none

Source: Bedoukian Res.; 5.60% *Coriandrum sativum* (leaf), J. Ag. Food Chem. 38:2054(1990);

4.80% *Coriandrum sativum* (plant); 0.20% *Sideritis condensata*



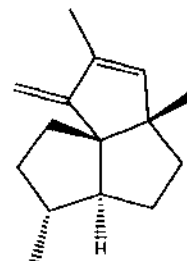
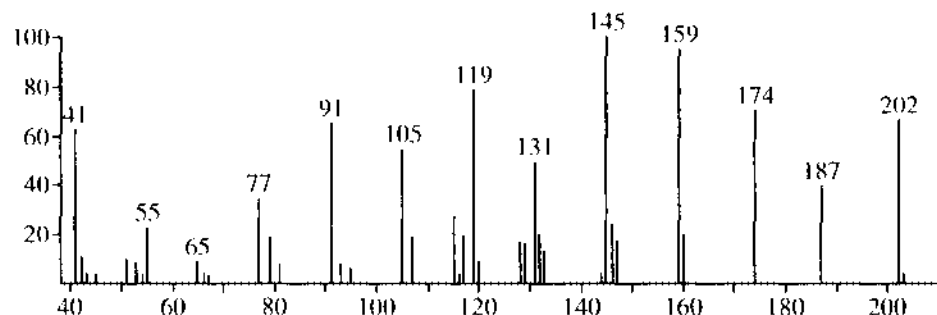
RT: 22.77 Al: 1358 Kl: 1360 **Silphiperfol-4,7(14)-diene**

CAS#: 210637-49-3 MF: C₁₅H₂₂ FW: 202 MSD LIB#: 638

CN: cyclopenta(c)pentalene, 1,3a,4,5,5a,6,7,8-octahydro-2,3a,6-trimethyl-, 1-methylen-, (3aS,5aS,6R,8aS)-

Synonyms: silphiperfol-4,7(14)-diene in Weyerstahl et al., Eur. J. Org. Chem. 1998, 1205-1212.

Source: *Echinops giganteus* var. *lelyi*, Weyerstahl et al. J. Org. Chem., 1205-1212(1998)



RT: 22.78 Al: 1358 Kl: 1361 **Nonalactone <γ>**

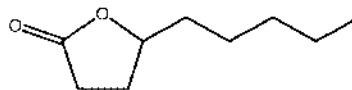
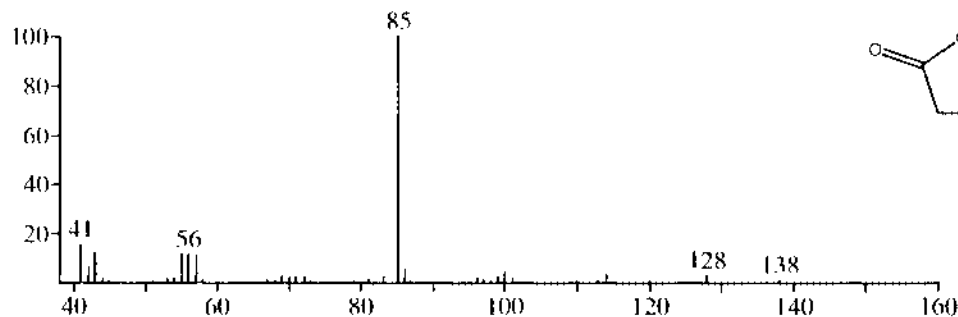
CAS#: 104-61-0 MF: C₉H₁₆O₂ FW: 156 MSD LIB#: 1163

CN: 2(3H)-furanone, dihydro-5-pentyl-

Synonyms: apricolin; eocos aldehyde; prunolide

Source: Pfaltz & Bauer ex Art Tucker: 1.00% *Polianthes tuberosa*, JEOR 6:653(1994);

0.25% *Zizyphus jujuba* fruit; 0.09% *Osmanthus fragrans*



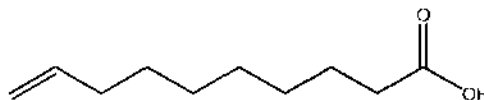
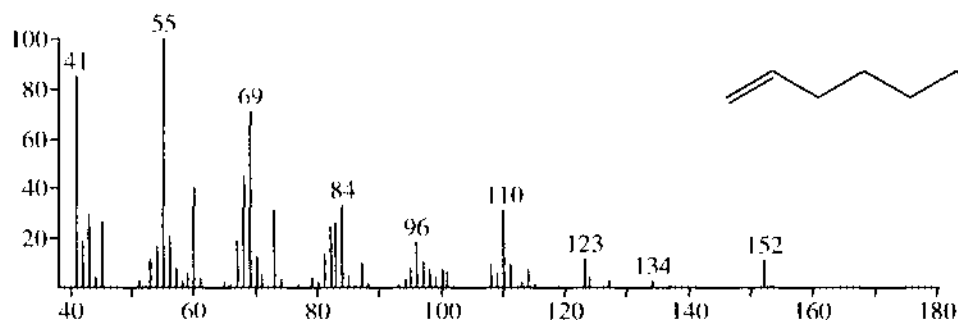
RT: 22.80 Al: 1359 Kl: 1361 **Decenoic acid <9>**

CAS#: 14436-32-9 MF: C₁₀H₁₈O₂ FW: 170 MSD LIB#: 2070

CN: 9-decenoic acid

Synonyms: caproic acid

Source: Bedoukian Res.



RT: 22.81 AI: 1359 KI: 1361 **Neryl acetate**

CAS#: 141-12-8 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 996

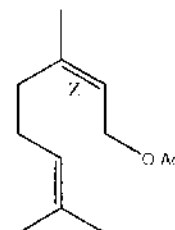
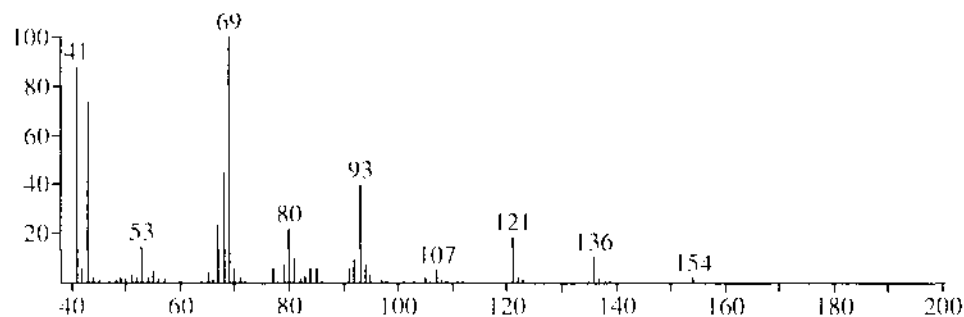
CN: 2,6-octadien-1-ol, 3,7-dimethyl-, acetate, (Z)-

Synonyms: nerol acetate

Source: Lemon oil, Loram Oils; 15.80% *Alpinia chinensis*, p. 333, in: Flav. & Frag.:

A World Persp., Lawrence et al. (eds.), Proc. 10th Int. Cong. Ess. Oils, Elsevier, Amsterdam (1988);

7.50% *Cymbopogon citratus*; 7.44% *Citrus limon*



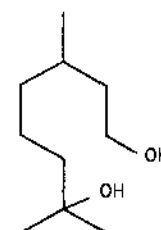
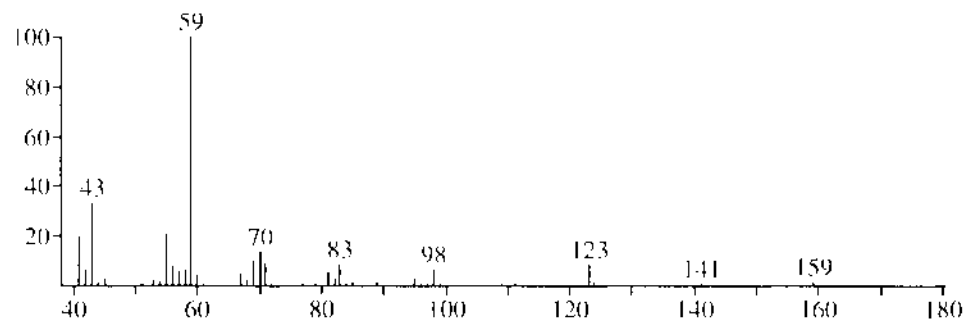
RT: 22.83 AI: 1359 KI: 1362 **Hydroxy citronellol**

CAS#: 107-74-4 MF: C₁₀H₂₂O₂ FW: 174 MSD LIB#: 825

CN: 1,7-octanediol, 3,7-dimethyl-

Synonyms: 2,6-dimethyl 2,8-octanediol

Source: K & K Chem. ex H. Hills



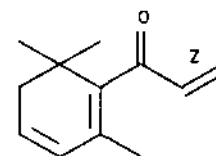
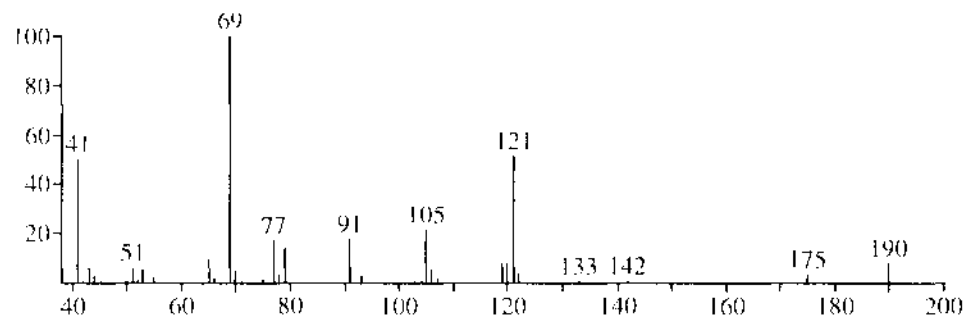
RT: 22.89 AI: 1361 KI: 1364 **Damascenone <(Z)-β->**

CAS#: 59739-63-8 MF: C₁₃H₁₈O FW: 190 MSD LIB#: 551

CN: 2-buten-1-one, 1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-, (Z)-

Synonyms: none

Source: Firmenisch ex Jian-Qin Cu, Kunming



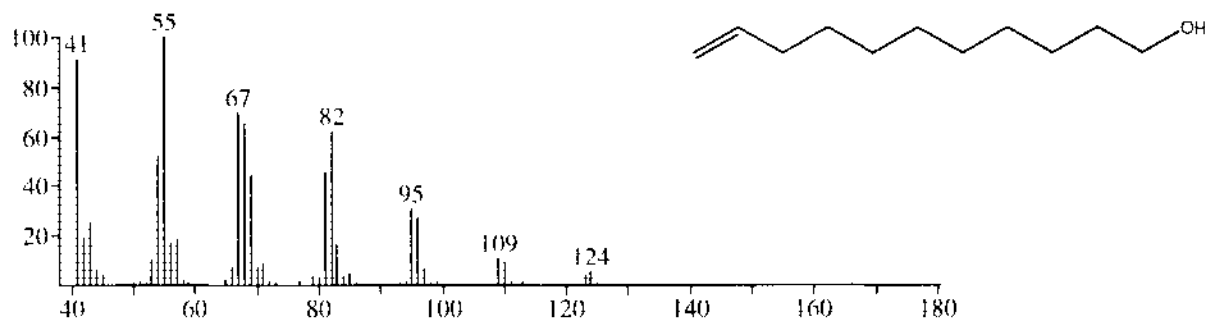
RT: 22.90 AI: 1361 K1: 1363 **Undecenol <10>**

CAS#: 112-43-6 MF: C₁₁H₂₂O FW: 170 MSD LIB#: 2074

CN: 10-undecen-1-ol

Synonyms: none

Source: Bedoukian Res.



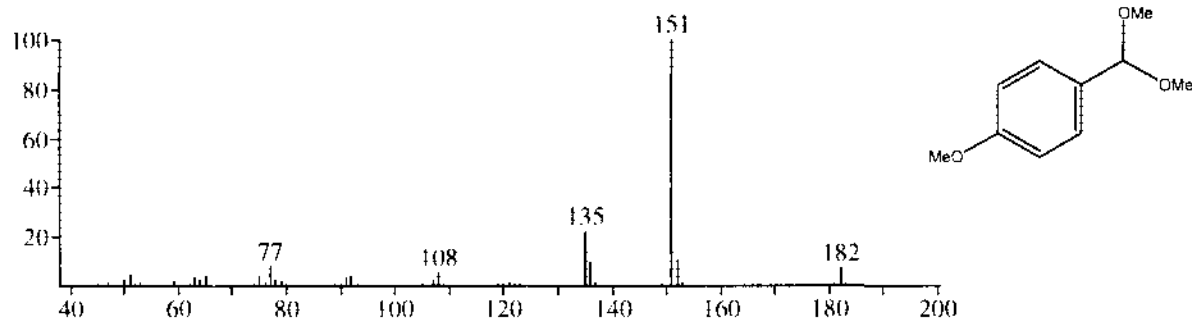
RT: 22.93 AI: 1361 K1: 1364 **Anisaldehyde <dimethylacetal-p>**

CAS#: 2186-92-7 MF: C₁₀H₁₄O₃ FW: 182 MSD LIB#: 1929

CN: benzene, 1-(dimethoxymethyl)-4-methoxy-

Synonyms: none

Source: Bedoukian Res.



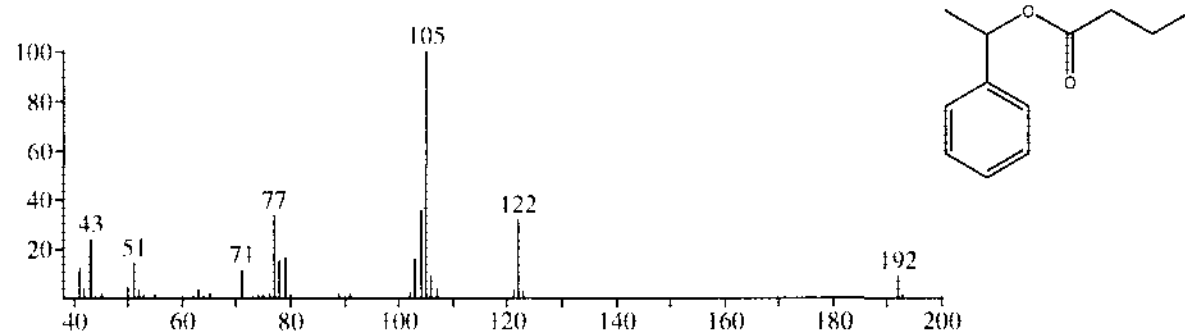
RT: 23.00 AI: 1363 K1: 1365 **Methyl benzyl butyrate <α>**

CAS#: 3460-44-4 MF: C₁₂H₁₆O₂ FW: 192 MSD LIB#: 1663

CN: butanoic acid, 1-phenylethyl ester

Synonyms: none

Source: Aldrich Chem.



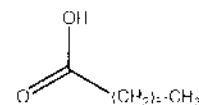
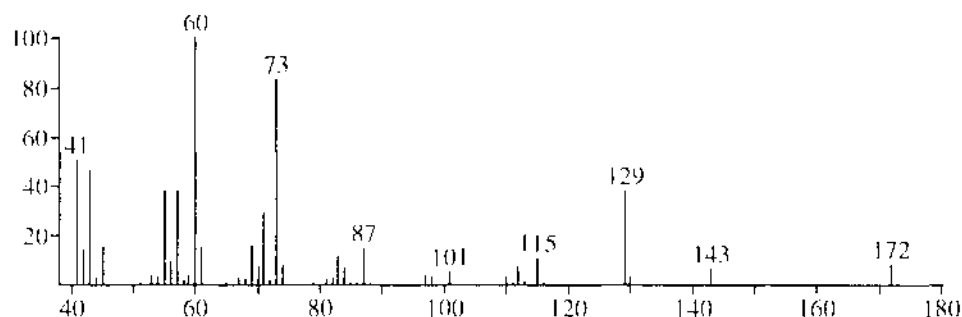
RT: 23.02 AI: 1364 KI: 1366 **Decanoic acid**

CAS#: 334-48-5 MF: C₁₀H₂₀O₂ FW: 172 MSD LIB#: 2041

CN: decanoic acid

Synonyms: capric acid; caprinic acid

Source: Bedoukian Res.



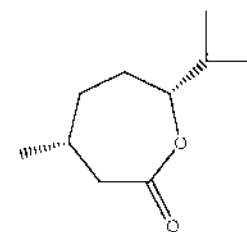
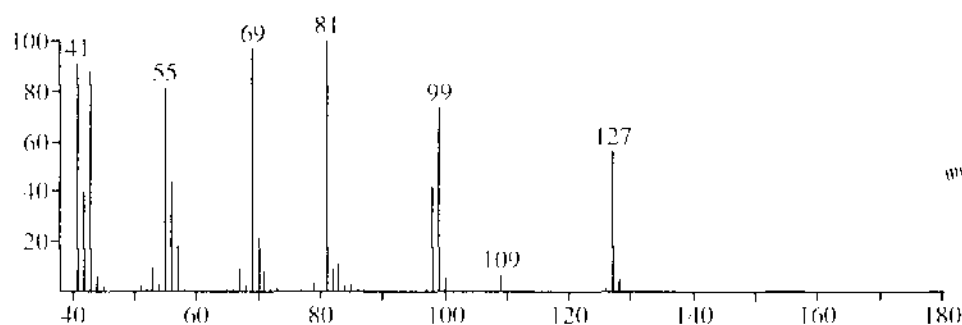
RT: 23.05 AI: 1364 KI: 1367 **Mentholactone <cis->**

CAS#: 68330-68-7 MF: C₁₀H₁₈O₂ FW: 170 MSD LIB#: 1078

CN: 2-oxepanone, 4-methyl-7-(1-methylethyl)-, (4R, cis)-

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl



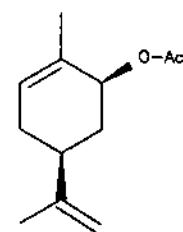
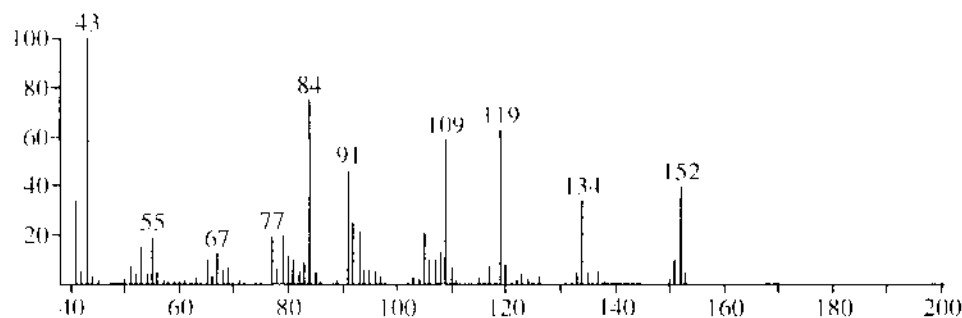
RT: 23.08 AI: 1365 KI: 1367 **Carvyl acetate <cis->**

CAS#: 1205-42-1 MF: C₁₂H₁₈O₂ FW: 194 MSD LIB#: 369

CN: 2-cyclohexen-1-ol, 2-methyl-5-(1-methylethenyl)-, acetate, cis-

Synonyms: p-mentha-6,8-dien-2-ol, acetate, cis-

Source: SCM Chem. ex H. Hills; 2.00% *Mentha spicata*, Perf. Flav. 5:6(1980); 0.87% *Abies ernestii*; 0.50% *Cistus ladaniferus*



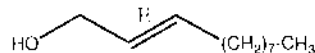
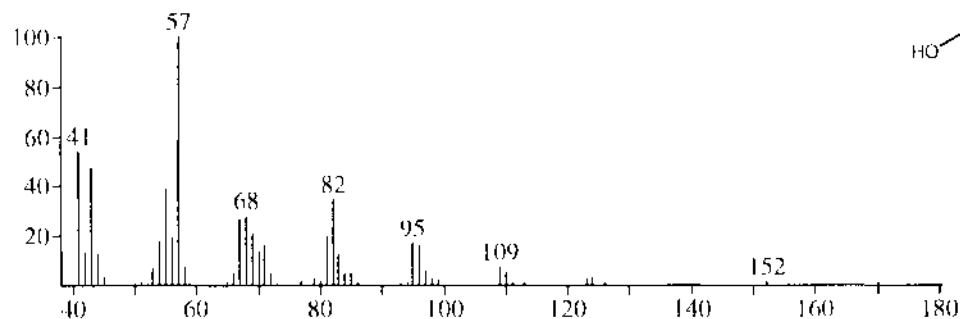
RT: 23.08 AI: 1365 KI: 1367 **Undecenol <(2E)->**

CAS#: 75039-84-8 ME: C₁₁ H₂₂ O FW: 170 MSD LIB#: 2084

CN: 2-undecen-1-ol, (2E)-

Synonyms: none

Source: Bedoukian Res.



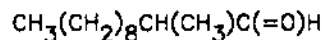
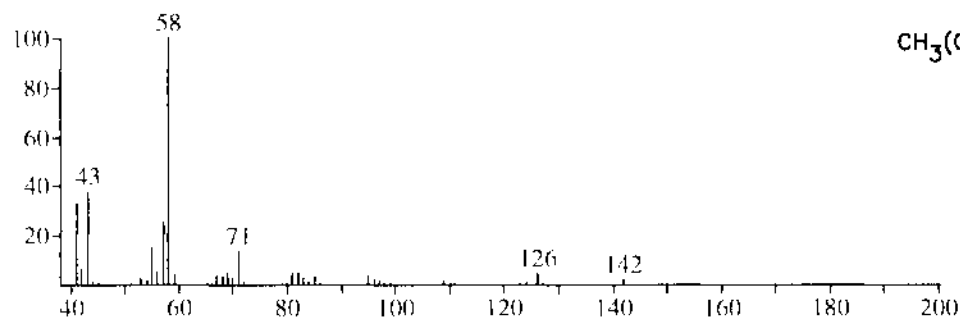
RT: 23.10 AI: 1365 KI: 1368 **Undecanal <2-methyl->**

CAS#: 110-41-8 ME: C₁₂ H₂₄ O FW: 184 MSD LIB#: 1524

CN: undecanal, 2-methyl-

Synonyms: none

Source: Pfaltz & Bauer ex Art Tucker



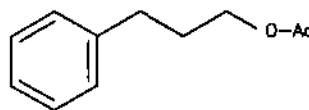
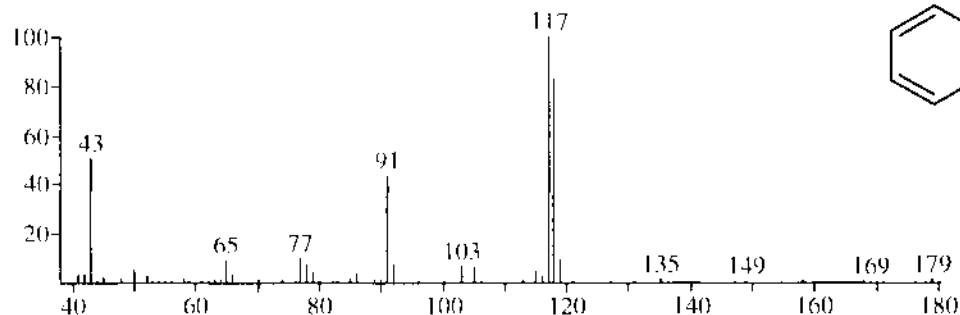
RT: 23.11 AI: 1366 KI: 1368 **Hydrocinnamyl acetate**

CAS#: 122-72-5 ME: C₁₁ H₁₄ O₂ FW: 178 MSD LIB#: 445

CN: benzenepropanol, acetate

Synonyms: 3-phenylpropyl acetate

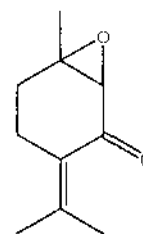
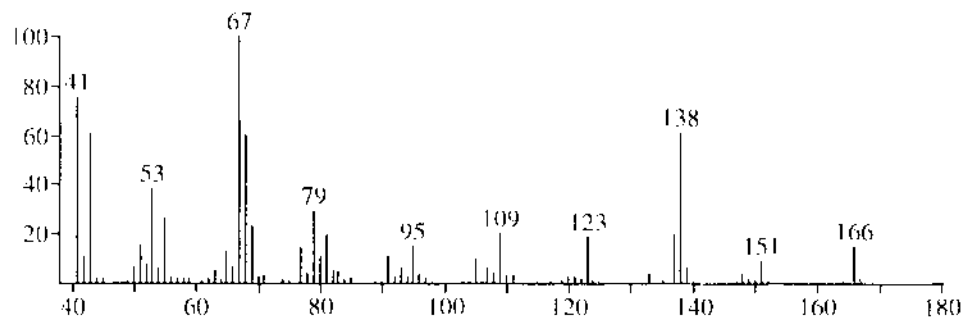
Source: Cinnamon leaf oil, Great American Herb Co.



RT: 23.12 AI: 1366 KI: 1368 **Piperitenone oxide**CAS#: 35178-55-3 MF: C₁₀H₁₄O₂ FW: 166 MSD LIB#: 1063

CN: 7-oxabicyclo(4.1.0)heptan-2-one, 6-methyl-3-(1-methylethylidene)-

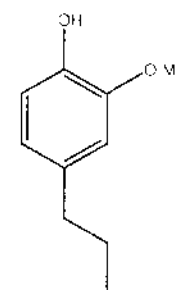
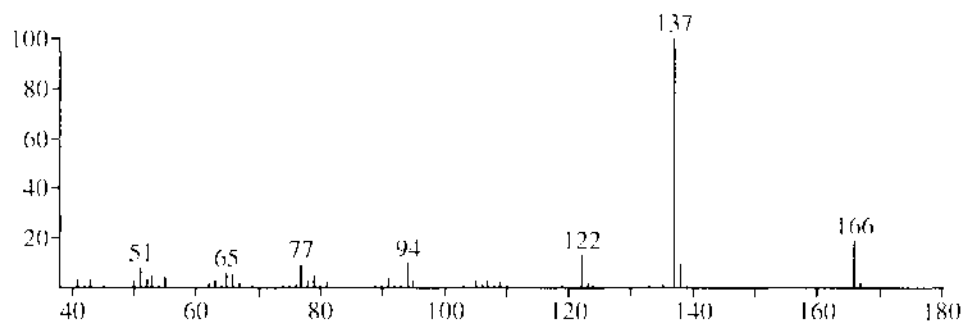
Synonyms: p-menth-4(8)-en-3-one, 1,2-epoxy-

Source: *Mentha verticillata* oil ex M. Maffei, Italy: 77.43% *Mentha longifolia*,FEJ 3:23(1988); 75.83% *Mentha suaveolens*; 37.25% *Mentha spicata*RT: 23.15 AI: 1366 KI: 1369 **Eugenol <dihydro->**CAS#: 2785-87-7 MF: C₁₀H₁₄O₂ FW: 166 MSD LIB#: 697

CN: phenol, 2-methoxy-4-propyl-

Synonyms: 4-propylguaiacol; cerulignol; coeulignol

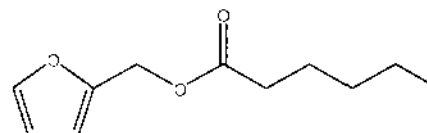
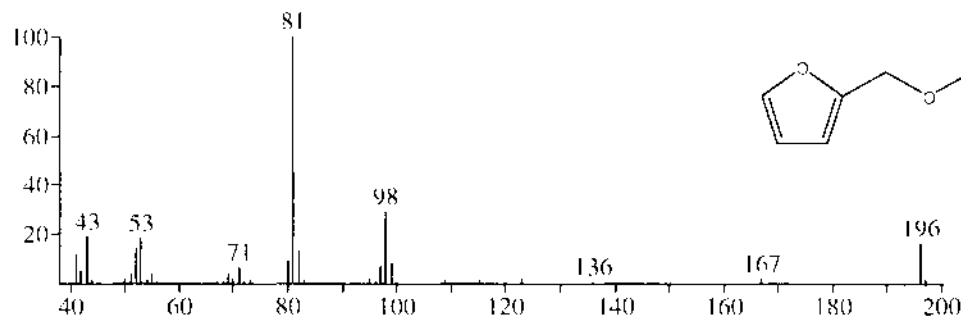
Source: ref. epd. ex E. von Rudloff

RT: 23.16 AI: 1367 KI: 1369 **Furfuryl hexanoate**CAS#: 39252-02-3 MF: C₁₁H₁₆O₃ FW: 196 MSD LIB#: 84

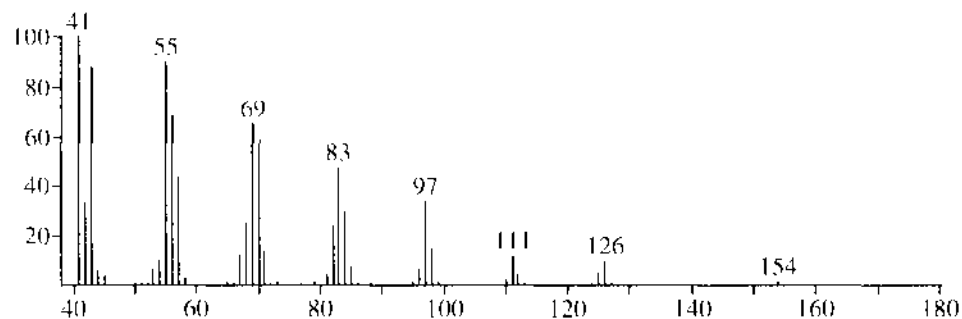
CN: hexanoic acid, 2-furanylmethyl ester

Synonyms: none

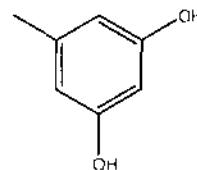
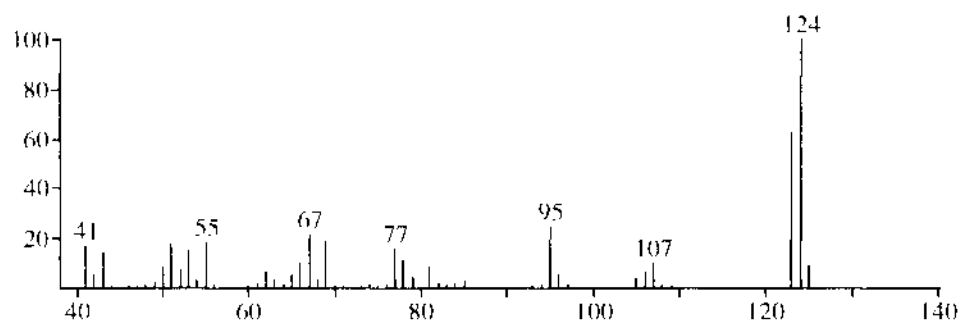
Source: Aldrich Chem.



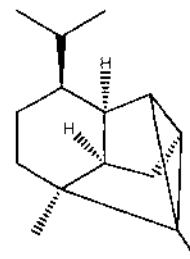
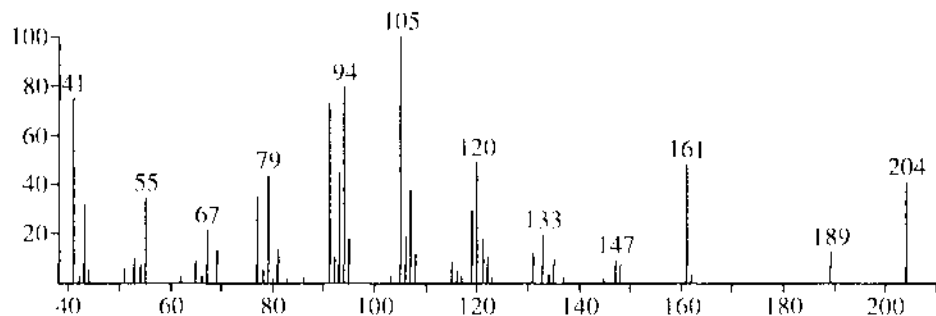
RT: 23.19 AE: 1367 KI: 1370 **Undecanol <n->**
 CAS#: 112-42-5 ME: C₁₁H₂₄O FW: 172 MSD LIB#: 28
 CN: 1-undecanol
 Synonyms: hendecanol
 Source: ref. cpd. ex E. von Rudloff



RT: 23.23 AE: 1368 KI: 1370 **Orcinol**
 CAS#: 504-15-4 ME: C₇H₈O₂ FW: 124 MSD LIB#: 1226
 CN: 1,3-benzenediol, 5-methyl-
 Synonyms: resorcinol, 5-methyl-
 Source: ref. cpd. ex E. von Rudloff



RT: 23.25 AE: 1369 KI: 1371 **Cyclosativene**
 CAS#: 22469-52-9 ME: C₁₅H₂₄ FW: 204 MSD LIB#: 540
 CN: 1,2,4-metheno-1H-indene, octahydro-1,7a-dimethyl-5-(1-methylethyl)-,
 (1S, (1 α ,2 α ,3 α ,4 α ,5 α ,7 α ,8S*))-
 Synonyms: none
 Source: ref. cpd. ex Larry Cool; 0.79% *Phoebe porosa*, VJ 9:179(1994);
 0.53% *Croton eluteria*



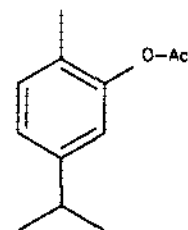
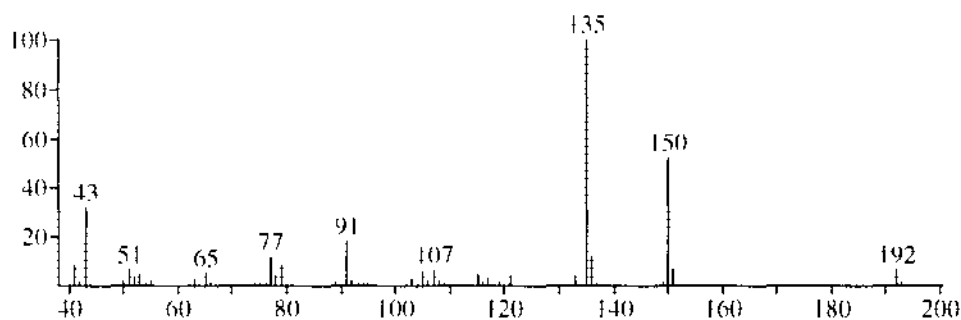
RT: 23.32 AI: 1370 KI: 1372 **Carvacrol acetate**

CAS#: 6380-28-5 MF: C₁₂H₁₆O₂ FW: 192 MSD LIB#: 365

CN: phenol, 2-methyl-5-(1-methylethyl)-, acetate

Synonyms: carvacryl acetate

Source: ref. cpd. ex Guy Collin



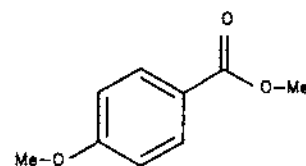
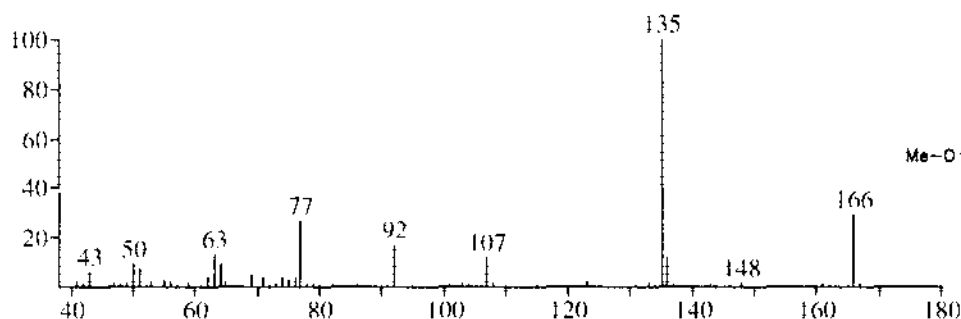
RT: 23.33 AI: 1371 KI: 1373 **Methyl p-anisate**

CAS#: 121-98-2 MF: C₉H₁₀O₃ FW: 166 MSD LIB#: 1433

CN: benzoic acid, 4-methoxy-, methyl ester

Synonyms: 4-(methoxycarbonyl)anisole

Source: Star anis seed oil ex Jian-Qin Cu



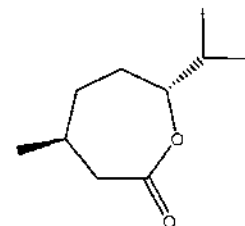
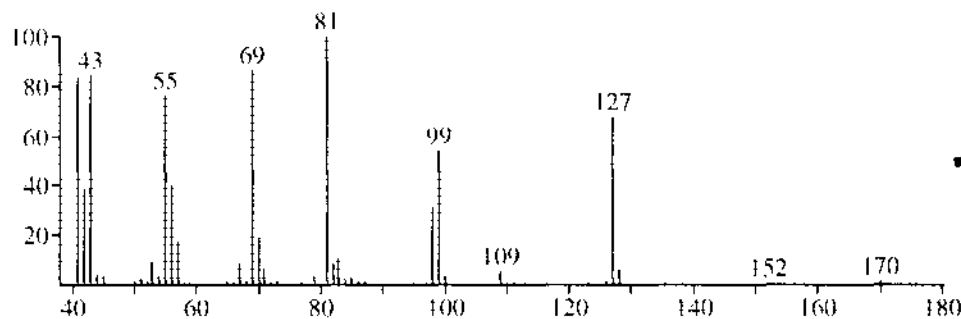
RT: 23.35 AI: 1371 KI: 1373 **Menthollactone <trans->**

CAS#: 133267-37-5 MF: C₁₀H₁₈O₂ FW: 170 MSD LIB#: 1079

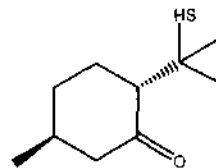
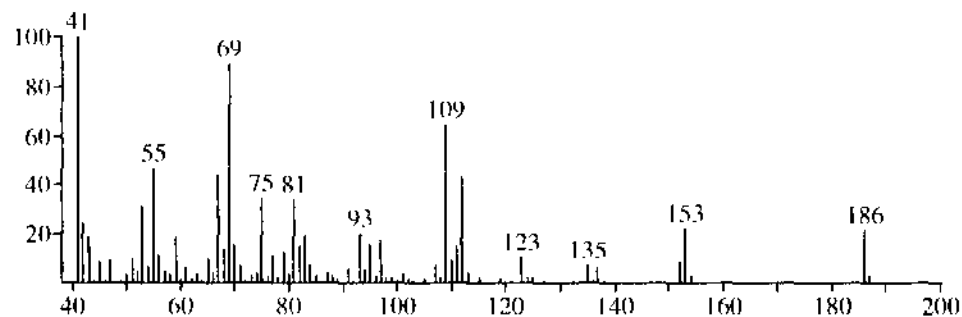
CN: octanoic acid, 6-hydroxy-3-methyl-7-methyl-,epsilon-, lactone, trans-

Synonyms: none

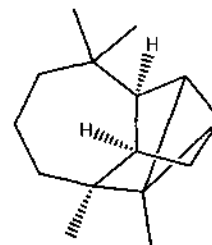
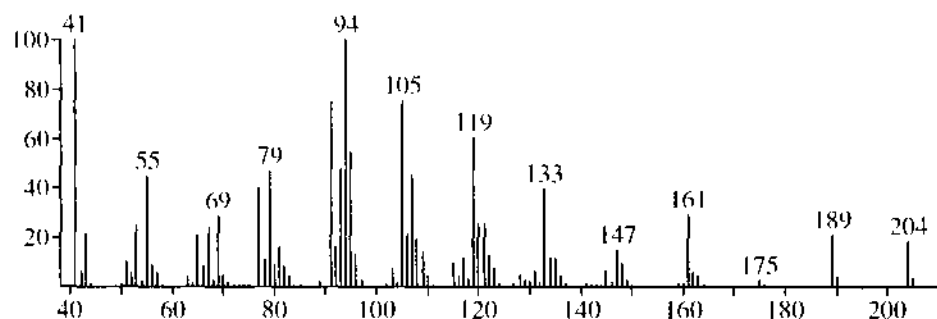
Source: ref. cpd. ex Weyerstahl



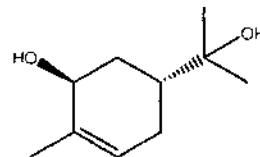
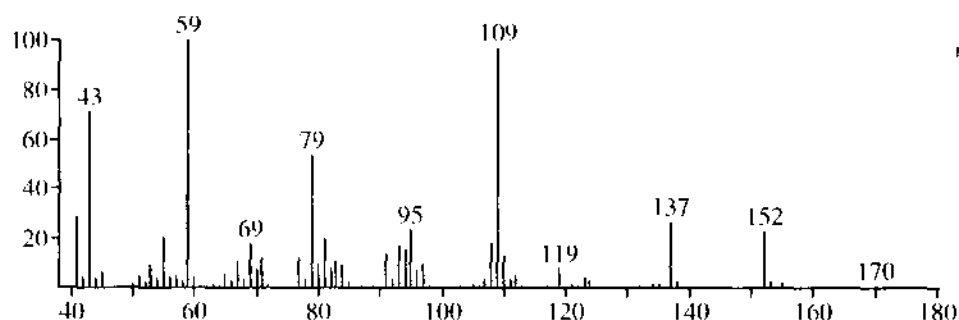
RT: 23.36 AI: 1371 KE: 1373 **Mentha-8-thiol-3-one <trans-p>**
 CAS#: 35117-85-2 MF: C₁₀H₁₈O S FW: 186 MSD LIB#: 1637
 CN: cyclohexanone, 2-(1-mercapto-1-methylethyl)-5-methyl-, (2S-trans-)
 Synonyms: none
 Source: Aldrich Chem.



RT: 23.37 AI: 1371 KE: 1374 **Longicyclene**
 CAS#: 1137-12-8 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1026
 CN: 1,2,4-methenoazulene, decahydro-1,5,5,8a-tetramethyl-, (1S-(1 α ,2 α ,3 α ,4 α ,8 α ,9R*))
 Synonyms: none
 Source: Fluka Chem.; 0.65% *Chamaecypariss obtusa*, J. Ag. Biol. Chem. 45:1497(1981);
 0.42% *Phoebe porosa*; 0.07% *Angelica archangelica*



RT: 23.37 AI: 1371 KE: 1374 **Menth-6-en-2,8-diol <trans-p>**
 CAS#: 42370-41-2 MF: C₁₀H₁₈O₂ FW: 170 MSD LIB#: 2009
 CN: 3-cyclohexene-1-methanol, 5-hydroxy- α,α ,4-trimethyl-, (1R,5S)-
 Synonyms: soberol, trans-, trans-6-hydroxy- α -terpineol
 Source: Aldrich Chem. ex JJ Brophy



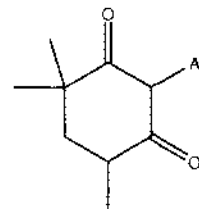
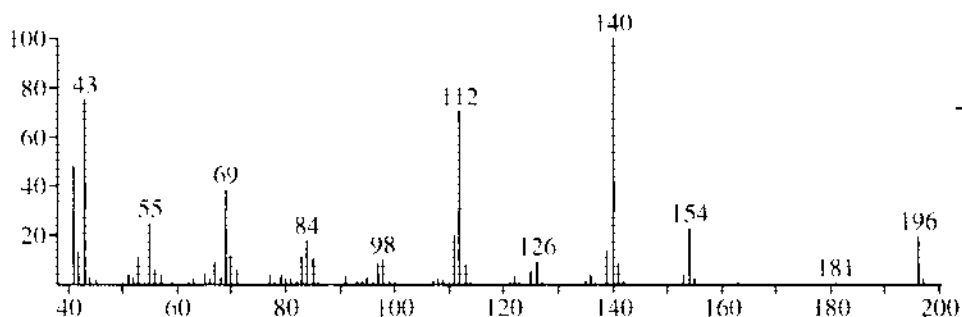
RT: 23.38 AI: 1372 KE: 1374 **Angustione**

CAS#: 641-11-2 MF: C₁₁H₁₆O₃ FW: 196 MSD LIB#: 264

CN: 1,3-cyclohexanedione, 2-acetyl-4,4,6-trimethyl-

Synonyms: none

Source: *Backhousia angustifolia* ex JJ Brophy



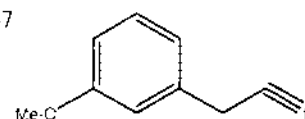
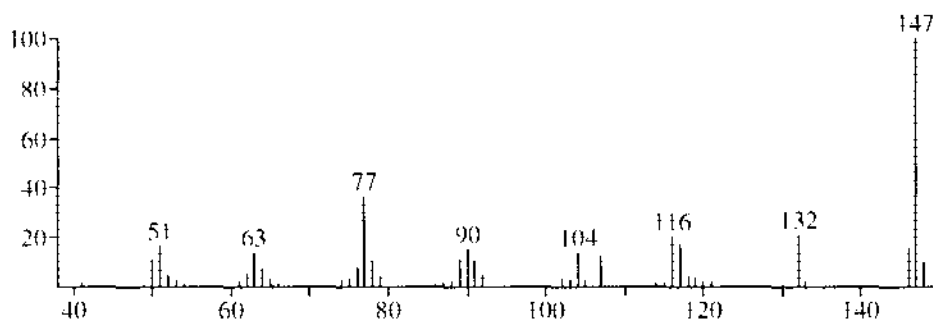
RT: 23.42 AI: 1373 KE: 1375 **Benzene acetonitrile <3-methoxy->**

CAS#: 19924-43-7 MF: C₉H₉N O FW: 147 MSD LIB#: 1798

CN: benzenecetonitrile, 3-methoxy-

Synonyms: 3-methyl phenylacetonitrile, 3-methylbenzyl cyanide

Source: Mace oil ex Mario Tellez



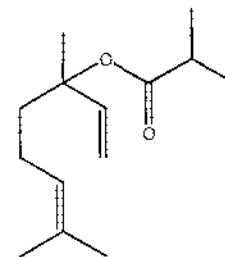
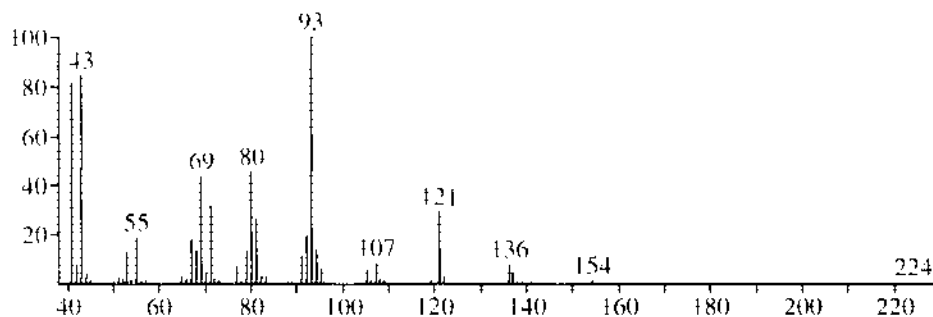
RT: 23.43 AI: 1373 KE: 1375 **Linalool isobutanoate**

CAS#: 78-35-3 MF: C₁₄H₂₄O₂ FW: 224 MSD LIB#: 1018

CN: propanoic acid, 2-methyl-, 1-ethenyl-1,5-dimethyl-4-hexenyl ester

Synonyms: linalool isobutyrate; linalyl isobutyrate

Source: K & K Chem. ex Art Tucker



RT: 23.43 AI: 1373 KI: 1375 **Ylangene <α>**

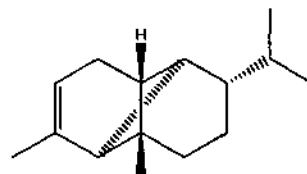
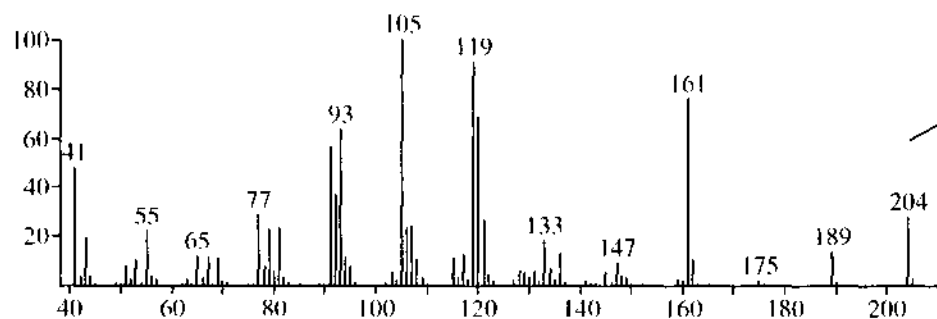
CAS#: 14912-44-8 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 404

CN: tricyclo(4.4.0.0^{2,7})dec-3-ene, 1,3-dimethyl-8-(1-methylethyl)-, stereoisomer

Synonyms: NOT= α-copaene as listed in some sources!

Source: *Cedrela odorata* oil ex Dragoco ex E.-J. Brunke; 7.83% *Psidium friedrichsthalianum* (leaf),

JEOR 7:187(1995); 6.20% *Artemisia annua*; 3.32% *Canella winterana*



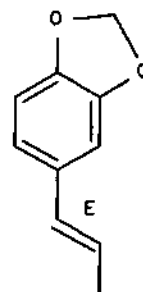
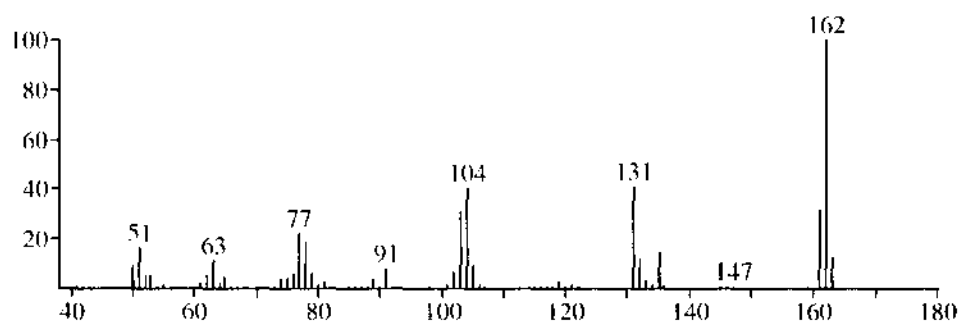
RT: 23.45 AI: 1373 KI: 1375 **Isosafrole <(E)>**

CAS#: 4043-71-4 MF: C₁₀H₁₀O₂ FW: 162 MSD LIB#: 887

CN: 1,3-benzodioxole, 5-(1-propenyl)-, (E)-

Synonyms: none

Source: Aldrich Chem.



RT: 23.48 AI: 1374 KI: 1376 **Isoledene**

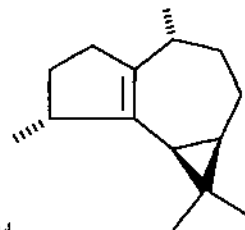
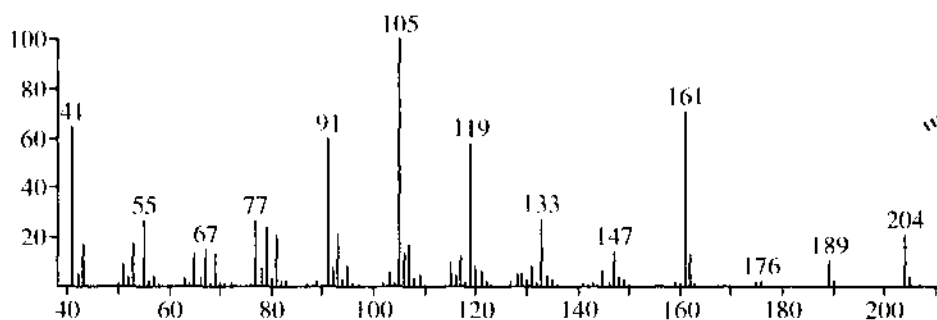
CAS#: 95910-36-4 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 866

CN: 1H-cycloprop(e)azulene, 1a,2,3,4,5,6,7,7b-octahydro-1,1,4,7-tetramethyl-,

(1aR-(1aα,4α,7α,7bα))-

Synonyms: none

Source: Fluka Chem.



RT: 23.49 AI: 1374 KI: 1376 **Copaene <α>**

CAS#: 3856-25-5 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 828

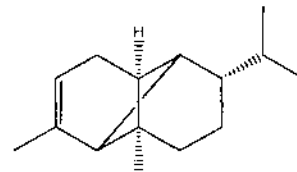
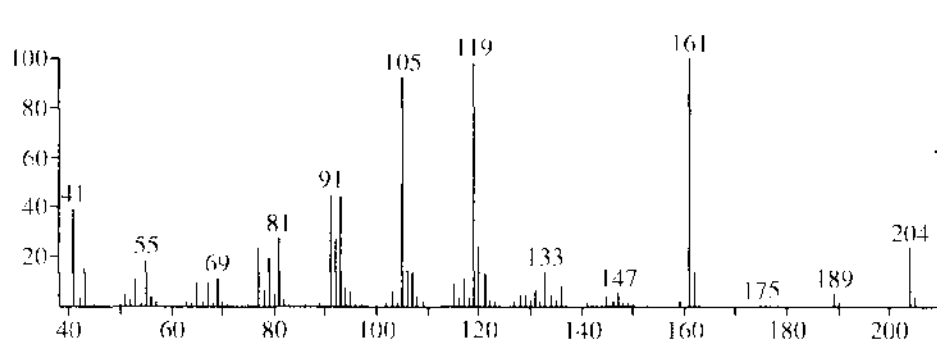
CN: tricyclo(4.4.0.0^{2,7})dec-3-ene, 1,3-dimethyl-8-(1-methylethyl)-, stereoisomer

Synonyms: aglaïene

Source: *Hymenaea* oil ex Jean Langenheim; 20.73% *Copaifera officinalis*.

Journal of High Resolution Chromatography 18:54(1995): 15.60% *Cedrela odorata*;

15.50% *Dacryodes igaganga* (fruit)



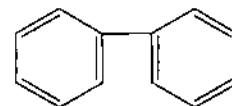
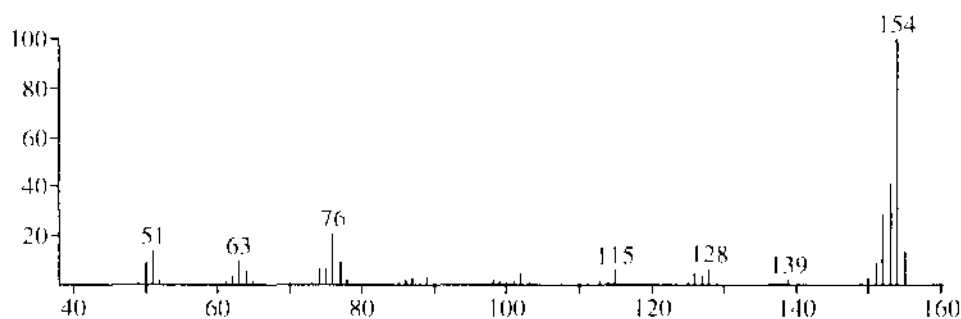
RT: 23.51 AI: 1375 KI: 1377 **Biphenyl**

CAS#: 92-52-4 MF: C₁₂H₁₀ FW: 154 MSD LIB#: 295

CN: 1,1'-biphenyl

Synonyms: bibenzene; diphenyl; phenylbenzene

Source: Bedoukian Res. ex Art Tucker



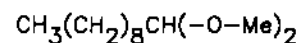
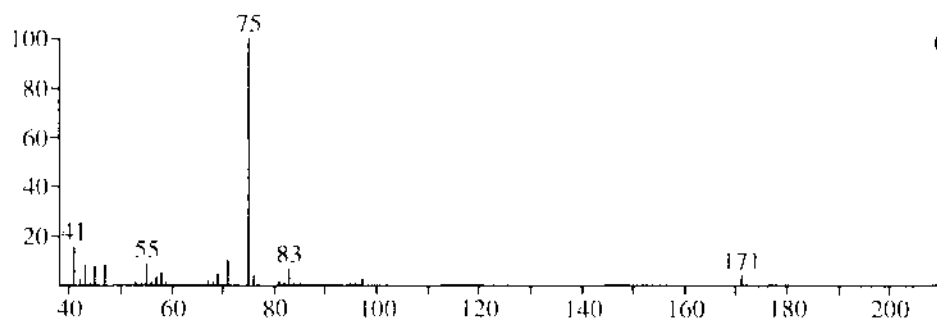
RT: 23.52 AI: 1375 KI: 1377 **Decane <1,1-dimethoxy>**

CAS#: 7779-41-1 MF: C₁₂H₂₆O₂ FW: 202 MSD LIB#: 570

CN: decanal, 1,1-dimethoxy-

Synonyms: dimethyl acetal decanal

Source: Pfaltz & Bauer ex Art Tucker



RT: 23.55 AI: 1376 KI: 1377 **Ethyl cinnamate <(Z)->**

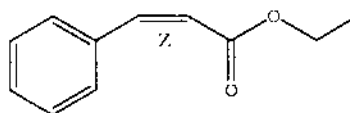
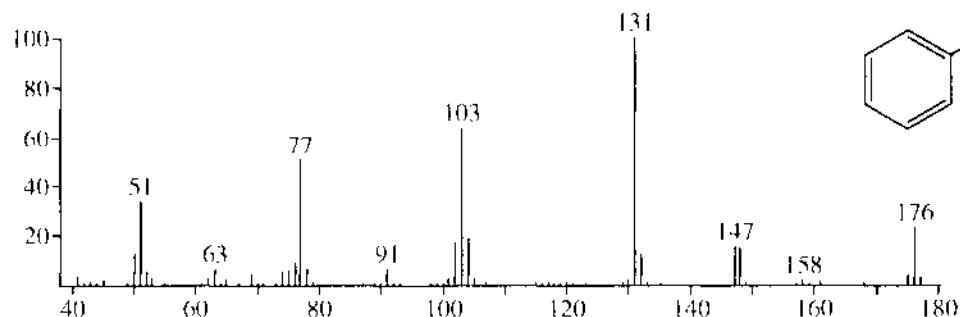
CAS#: 4610-69-9 MF: C₁₁H₁₂O₂ FW: 176 MSD LIB#: 201

CN: 2-propenoic acid, 3-phenyl-, ethyl ester, (Z)-

Synonyms: ethyl cis-cinnamate

Source: *Artemisia judaica* oil ex Z. Fleisher; 7.80% *Artemisia judaica* (Israel),

JEOR 2:271(1990); 4.44% *Artemisia judaica* (Egypt); 0.37% *Elaeagnus angustifolia*



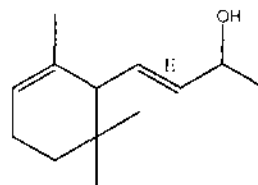
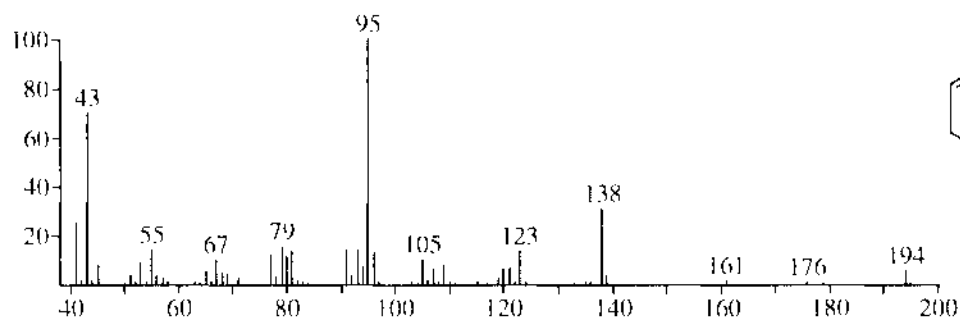
RT: 23.55 AI: 1376 KI: 1377 **Ionol <(E)->**

CAS#: 25312-34-9 MF: C₁₃H₂₂O FW: 194 MSD LIB#: 1957

CN: 3-buten-2-ol, 4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-, (3E)-

Synonyms: none

Source: Bedoukian Res. ex JJ Brophy



RT: 23.58 AI: 1376 KI: 1378 **Methyl cinnamate <(E)->**

CAS#: 1754-62-7 MF: C₁₀H₁₀O₂ FW: 162 MSD LIB#: 267

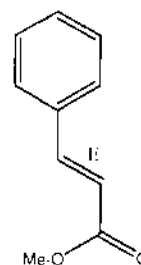
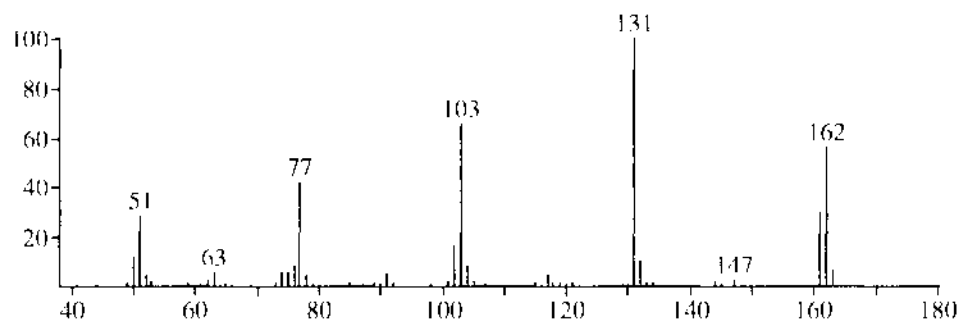
CN: 2-propenoic acid, 3-phenyl-, methyl ester, (E)-

Synonyms: trans-cinnamic acid, methyl ester

Source: distillation of basil leaves ex McCormick Co., RP Adams #5435;

66.50% *Ocimum basilicum*, FFJ 1:53(1986); 45.50% *Lycaste aromatica*;

7.80% *Narcissus jonquilla*



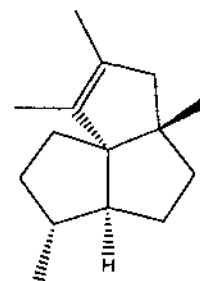
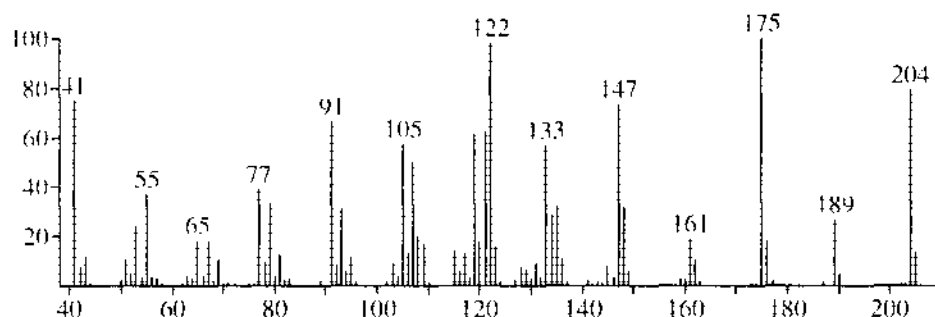
RT: 23.61 AI: 1377 KI: 1379 **Silphiperfol-6-ene**

CAS#: 74284-56-3 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 639

CN: cyclopentate(pentalene, 1,2,3,3a,4,5,5a,6-octahydro-3,5a,7,8-tetramethyl-, (3R,3aS,5aS,8aS)-

Synonyms: silphiperfolene

Source: *Echinopos giganteus* oil ex P. Weyerstahl



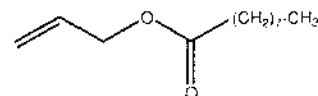
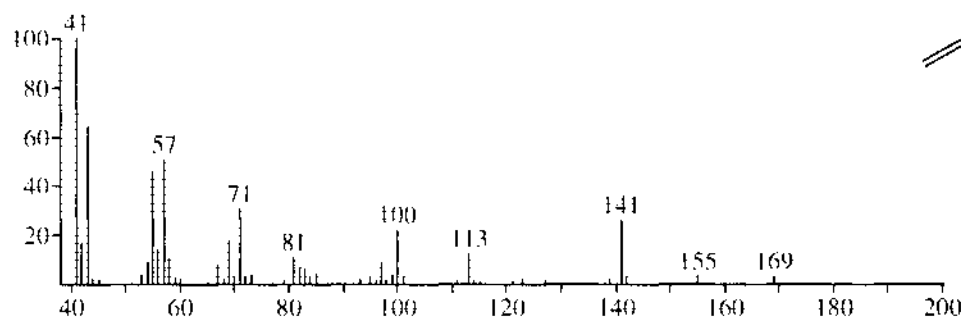
RT: 23.65 AI: 1378 KI: 1380 **Allyl nonanoate**

CAS#: 7493-72-3 MF: C₁₂H₂₂O₂ FW: 198 MSD LIB#: 113

CN: nonanoic acid, 2-propenyl ester

Synonyms: allyl pelargonate

Source: Aldrich Chem. ex Art Tucker



RT: 23.65 AI: 1378 KI: 1380 **Hexenyl hexanoate <(3Z)->**

CAS#: 31501-11-8 MF: C₁₂H₂₂O₂ FW: 198 MSD LIB#: 2042

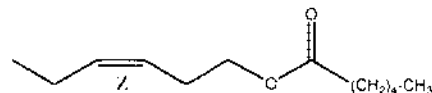
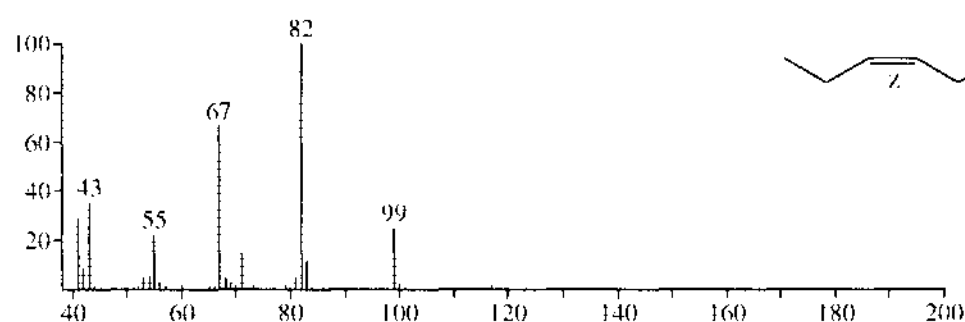
CN: hexanoic acid, (3Z)-3-hexenyl ester

Synonyms: cis-3-hexenyl caproate

Source: Bedoukian Res.: 6.65% *Passiflora edulis*, p. 219. in: Aromatic Plants & Essential

Constituents, Peace Book Co., Hong Kong (1993); 0.10% *Narcissus poeticus* (absolute);

0.10% *Averrhoa bilimbi* (fruit)



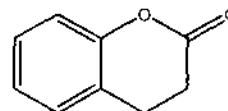
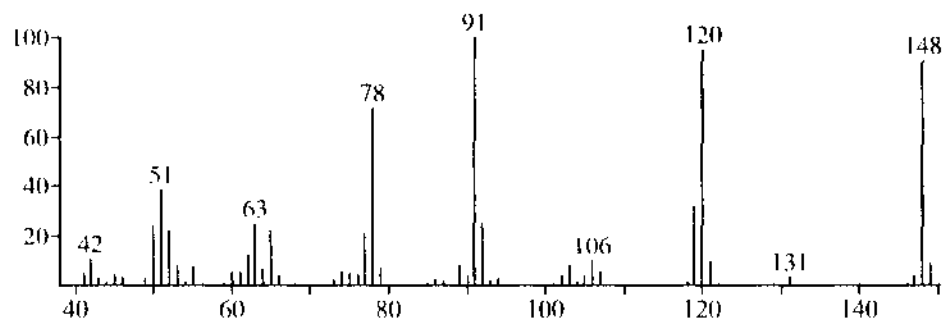
RT: 23.66 AI: 1378 KI: 1380 **Coumarin <3,4-dihydro->**

CAS#: 119-84-6 MF: C₉H₈O₂ FW: 148 MSD LIB#: 475

CN: 2H-1-benzopyran-2-one, 3,4-dihydro-

Synonyms: 2-chromanone; melitotin (coumarin); melilotol

Source: Aldrich Chem.



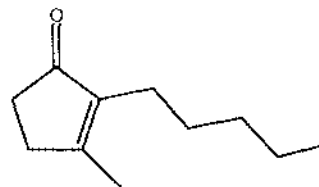
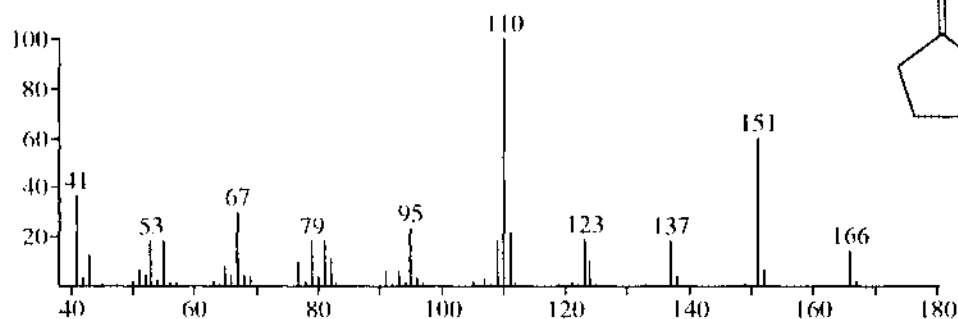
RT: 23.67 AI: 1378 KI: 1380 **Jasmone <dihydro->**

CAS#: 1128-08-1 MF: C₁₁H₁₈O FW: 166 MSD LIB#: 1958

CN: 2-cyclopenten-1-one, 3-methyl-2-pentyl-

Synonyms: none

Source: Bedoukian Res. ex JJ Brophy



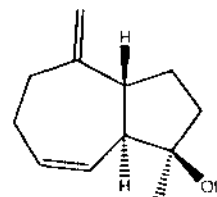
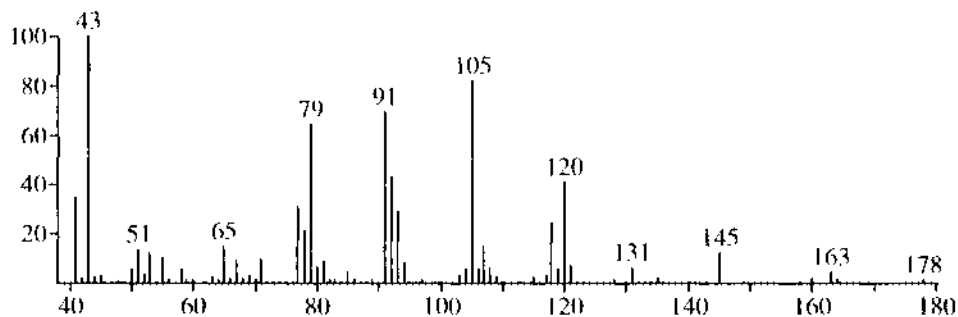
RT: 23.69 AI: 1379 KI: 1380 **Dictamnol <8-epi->**

CAS#: 195259-46-2 MF: C₁₂H₁₈O FW: 178 MSD LIB#: 146

CN: 1-azulenol, 1,2,3,3a,4,5,6,8a-octahydro-1-methyl-4-methylene-, (1R,3aR,8aS)

Synonyms: none

Source: *Amyris diatrypa* leaves, ex Tom Zanoni, Dom. Rep.



RT: 23.70 AI: 1379 KI: 1381 **Geranyl acetate**

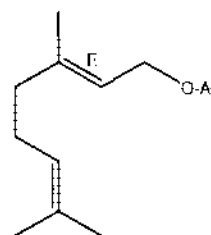
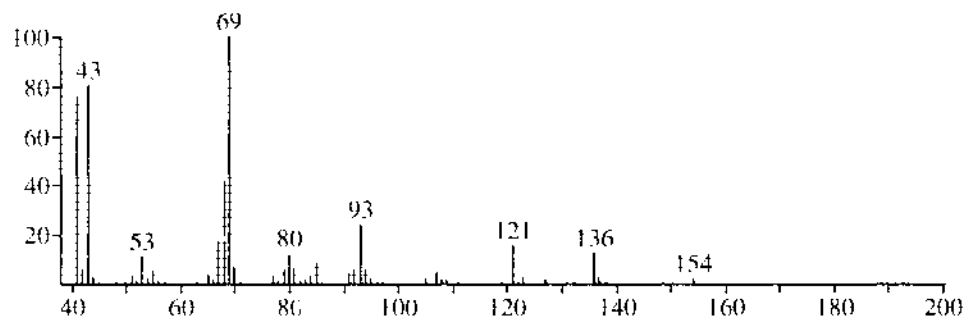
CAS#: 105-87-3 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 990

CN: 2,6-octadien-1-ol, 3,7-dimethyl-, acetate, (E)-

Synonyms: geraniol acetate

Source: Neroli oil ex Firmenich ex AF Thomas: 71.38% *Elsholtzia blanda*,

JEOR 4:121(1992): 7.80% *Dracocephalum moldavica*, 36.40% *Salvia sclarea*



RT: 23.70 AI: 1379 KI: 1381 **Patchoulene <β->**

CAS#: 514-51-2 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1240

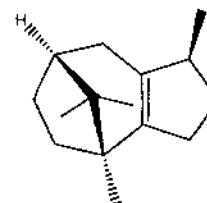
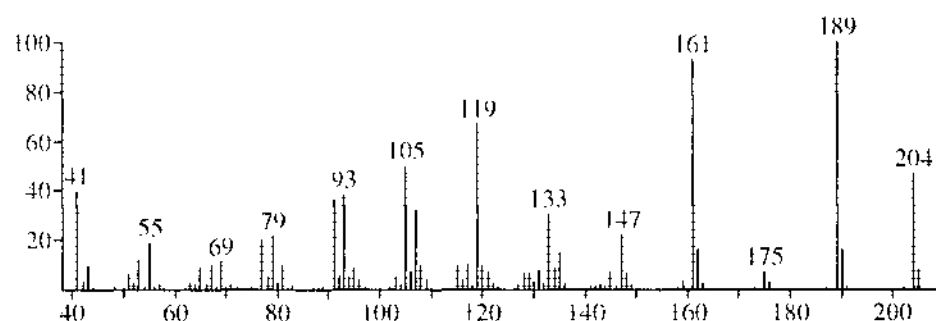
CN: 4,7-methanoazulene, 1,2,3,4,5,6,7,8-octahydro-1,4,9,9-tetramethyl-, (1S-(1α,4α,7α))-

Synonyms: none

Source: Patchouli oil ex Firmenich ex AF Thomas: 13.00% *Pogostemon cablin*,

Atlas of Essential Oils, S. Srinivas (1986): 4.20% *Psiadia viscosa*:

0.70% *Nardostachys jatamansi*



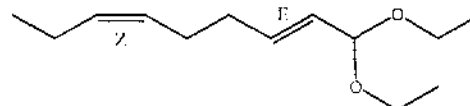
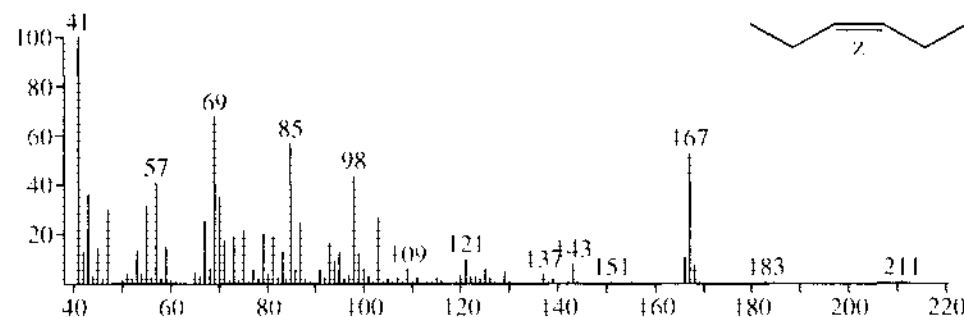
RT: 23.73 AI: 1380 KI: 1381 **Nonadienal <diethylacetal-(2E,6Z)->**

CAS#: 67674-36-6 MF: C₁₃H₂₄O₂ FW: 212 MSD LIB#: 2118

CN: 2,6-nonadiene, 1,1-diethoxy-, (2E,6Z)-

Synonyms: none

Source: Bedoukian Res.



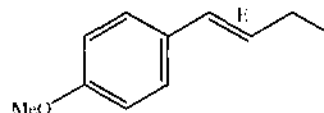
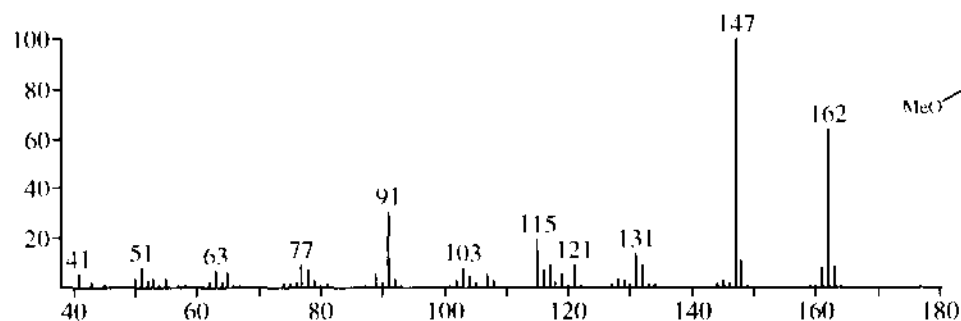
RT: 23.74 AI: 1380 KI: 1381 **Anisole <p-but-(1E)-enyl->**

CAS#: 18657-09-5 MF: C₁₁H₁₄O FW: 162 MSD LIB#: 1859

CN: benzene, 1-(1E)-1-butenyl-4-methoxy-

Synonyms: Anisole, p-1-butenyl-, (E)-

Source: *Anomum uliginosum* ex JJ Brophy



RT: 23.74 AI: 1380 KI: 1381 **Daucene**

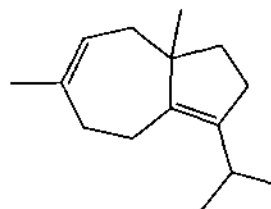
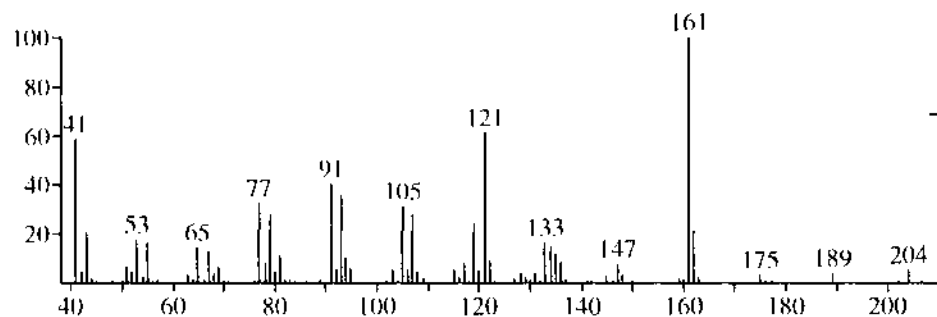
CAS#: 16661-00-0 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 363

CN: azulene, 1,2,4,5,8,8a-hexahydro-6,8a-dimethyl-3-(1-methylethyl)-

Synonyms: none

Source: Carrot seed oil ex A. Chainteau, Nestle; 3.50% *Daucus carota* (leaf),

Proc. 11th Intl. Cong. of Ess. Oils, FEJ, 4:173(1989); 1.00% *Daucus carota* (seed)



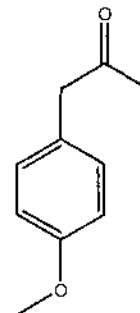
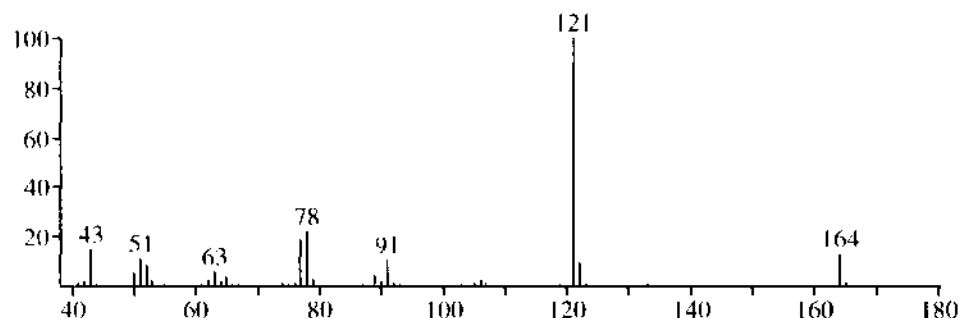
RT: 23.75 AI: 1380 KI: 1382 **Anisyl methyl ketone**

CAS#: 122-84-9 MF: C₁₀H₁₂O₂ FW: 164 MSD LIB#: 1649

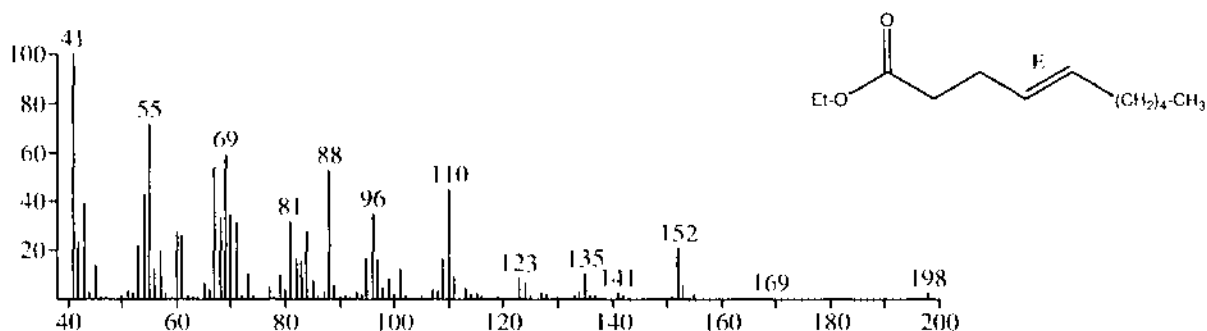
CN: 2-propanone, 1-(4-methoxyphenyl)-

Synonyms: anisketone, anisalacetone, 2-propanone<1-(4-methoxyphenyl)->

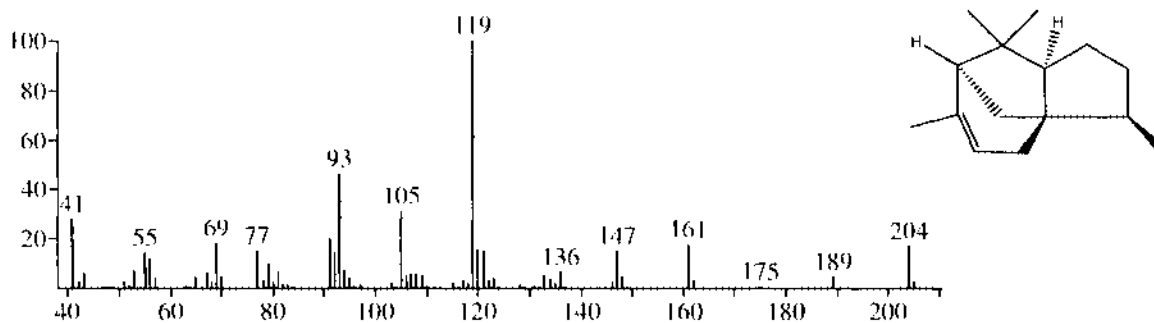
Source: Aldrich Chem.



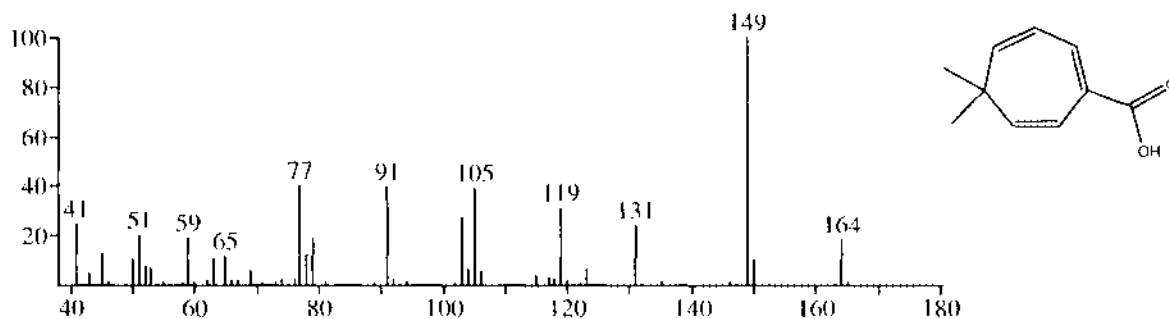
RT: 23.75 AI: 1380 KI: 1382 **Ethyl-(4E)-decanoate**
 CAS#: 76649-16-6 MF: C12 H22 O2 FW: 198 MSD LIB#: 687
 CN: 4-decenoic acid, ethyl ester, (E)-
 Synonyms: ethyl trans-4-decenoate
 Source: Bedoukian Res. ex Art Tucker



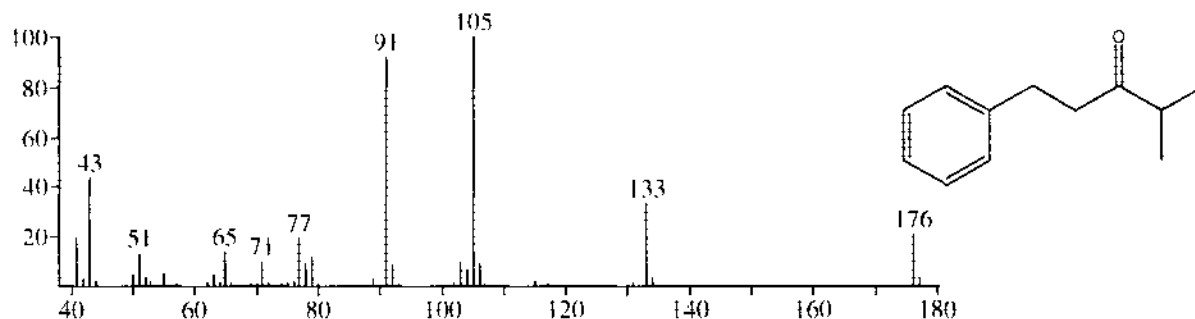
RT: 23.75 AI: 1380 KI: 1382 **Funebrene <2-epi-α>**
 CAS#: 65354-33-8 MF: C15 H24 FW: 204 MSD LIB#: 1927
 CN: 1H 3a,7-methanoazulene, 2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-
 (3R-(3α,3αβ,7β,8αβ))-
 Synonyms: none
 Source: *Lomatium rigidum* ex Vasu Dev



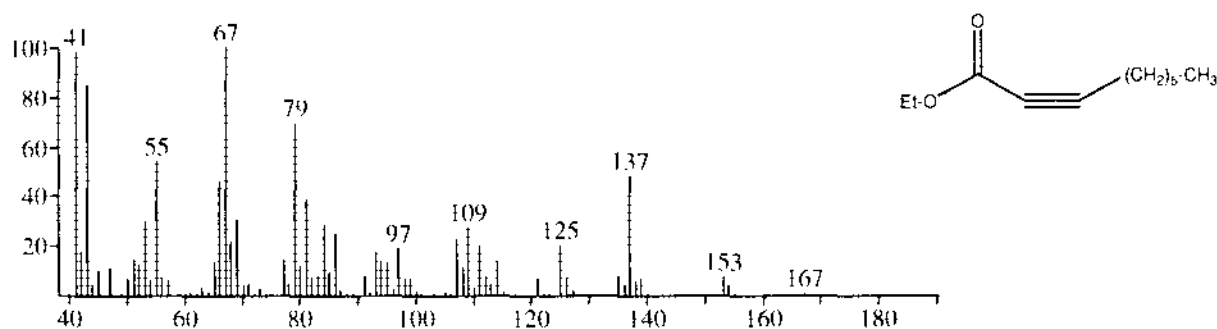
RT: 23.75 AI: 1380 KI: 1382 **Thujic acid**
 CAS#: 499-89-8 MF: C10 H12 O2 FW: 164 MSD LIB#: 1850
 CN: 1,3,6-cycloheptatriene-1-carboxylic acid, 5,5-dimethyl-
 Synonyms: none
 Source: *Thuja plicata* wood oil, Seattle Lbr. Co., RP Adams #8012



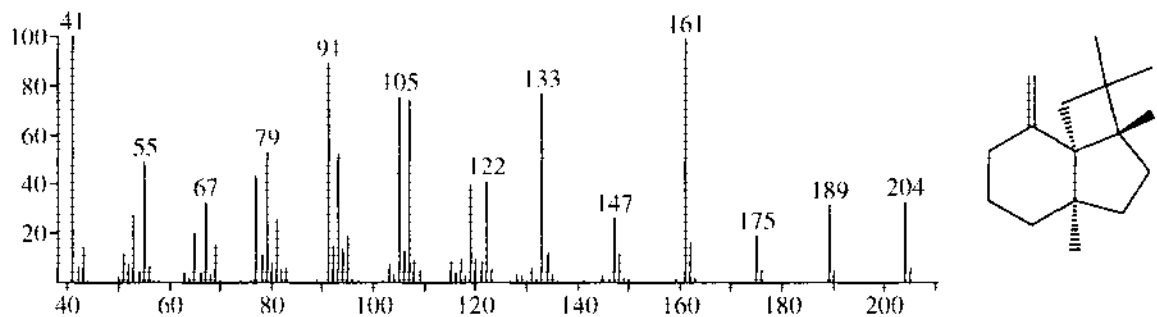
RT: 23.77 AI: 1381 K1: 1382 **Phenyl-4-methyl-pentan-3-one <1->**
 CAS#: 40463-09-0 MF: C₁₂H₁₆O FW: 176 MSD LIB#: 120
 CN: 3-pentanone, 4-methyl-1-phenyl-
 Synonyms: 2-methyl-5-pentyl-3-pentanone
 Source: *Amomyrtus meli* oil ex P. Weyerstahl



RT: 23.78 AI: 1381 K1: 1382 **Ethyl 2-nonynoate**
 CAS#: 10031-92-2 MF: C₁₁H₁₈O₂ FW: 182 MSD LIB#: 662
 CN: 2-nonynoic acid, ethyl ester
 Synonyms: ethyl octine carbonate
 Source: Bedoukian Res. ex Art Tucker



RT: 23.78 AI: 1381 K1: 1382 **Panasinsene <β->**
 CAS#: 56684-97-0 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1232
 CN: cyclobut(e)indene, decahydro-2,2,4a-trimethyl-8-methylene-, (2aS,4aR,8aR)-
 Synonyms: none
 Source: ref. cpd. ex P. Weyerstahl; 8.00% *Panax ginseng*; Bull. Chem. Soc. Japan 48:2078(1975)



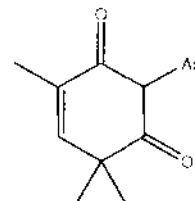
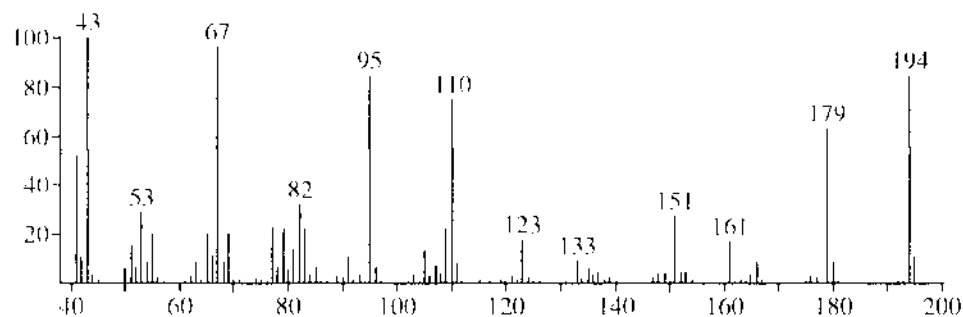
RT: 23.80 AI: 1381 KI: 1383 **Angustione <dehydro>**

CAS#: 4717-67-3 MF: C₁₁H₁₄O₃ FW: 194 MSD LIB#: 265

CN: 4-cyclohexene-1,3-dione, 2-acetyl-4,6,6-trimethyl-

Synonyms: none

Source: *Baccharis angustifolia* ex JJ Brophy



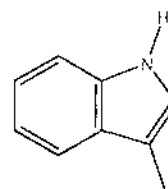
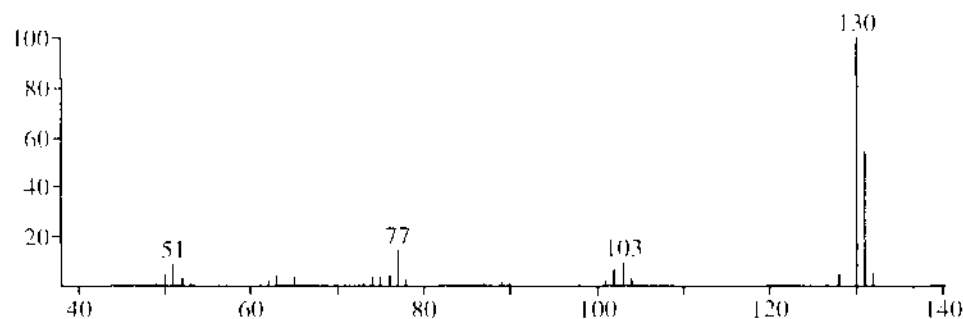
RT: 23.81 AI: 1381 KI: 1383 **Skatole**

CAS#: 83-34-1 MF: C₉H₉N FW: 131 MSD LIB#: 1416

CN: 1H-indole, 3-methyl-

Synonyms: 3-methyl indole

Source: Aldrich Chem. ex H Hills



RT: 23.83 AI: 1382 KI: 1383 **Hexyl hexanoate**

CAS#: 6378-65-0 MF: C₁₂H₂₄O₂ FW: 200 MSD LIB#: 188

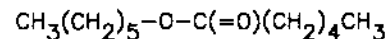
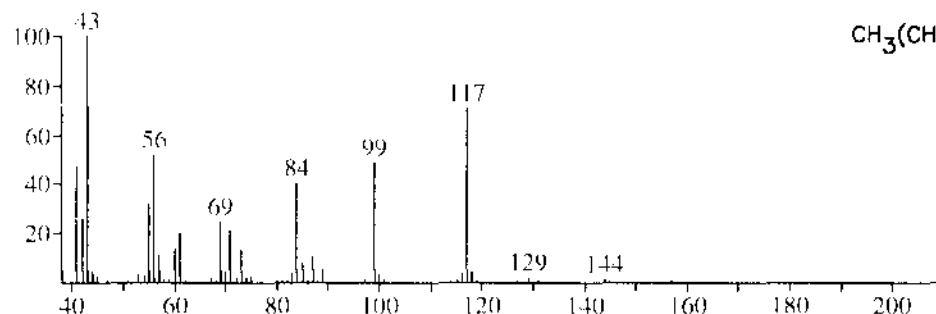
CN: hexanoic acid, hexyl ester

Synonyms: hexyl caproate

Source: distillation of red delicious apples, RP Adams #5756; 16.69% *Passiflora edulis*,

p. 219, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong (1993);

0.25% *Heracleum platytaenium*; 0.22% *Mandragora officinarum*



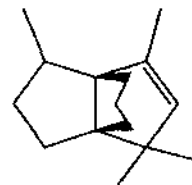
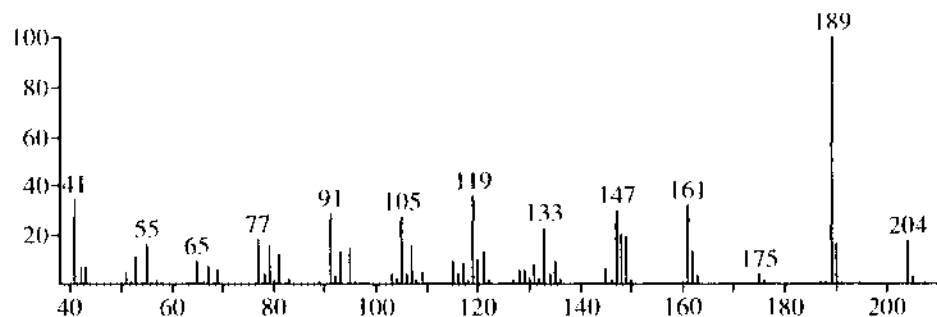
RT: 23.83 Al: 1382 Kl: 1383 **Modheph-2-ene**

CAS#: 68269-87-4 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 640

CN: 1H,4H-3a,6a-propanopentalene, 5,6-dihydro-1,1,3,4-tetramethyl-, (3aR,4R,6aS)-

Synonyms: modhephene

Source: *Echinops giganteus* oil ex P. Weyerstahl



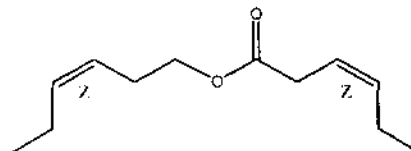
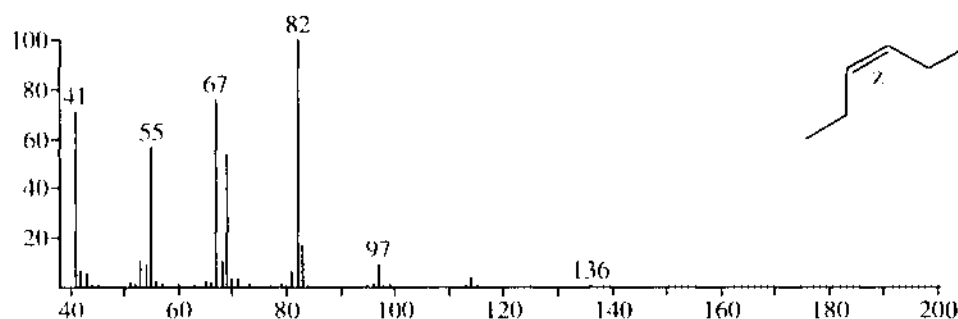
RT: 23.86 Al: 1383 Kl: 1384 **Hexenyl-(3Z)-hexenoate <(3Z)->**

CAS#: 61444-38-0 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 2044

CN: 3-hexenoic acid, (3Z)-3-hexenyl ester, (3Z)-

Synonyms: none

Source: Bedoukian Res.



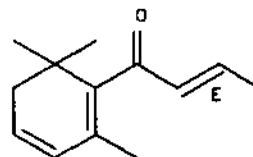
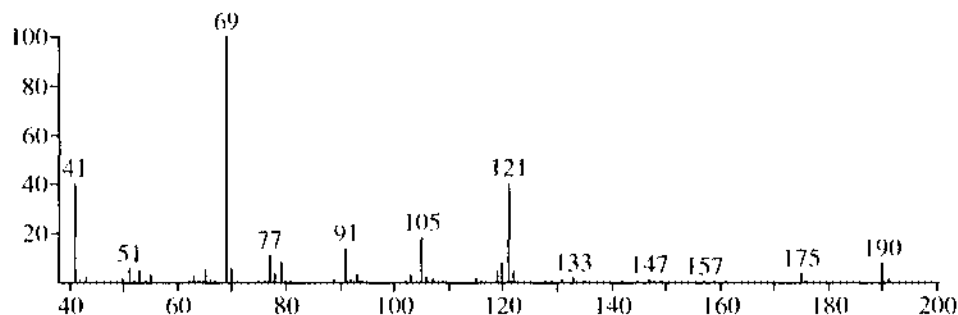
RT: 23.87 Al: 1383 Kl: 1384 **Damascenone <(E)-β->**

CAS#: 23726-93-4 MF: C₁₃H₁₈O FW: 190 MSD LIB#: 552

CN: 2-buten-1-one, 1-(2,6,6-trimethyl-1,3-cyclohexadien-1-yl)-, (E)-

Synonyms: trans-β-damascenone

Source: Firmenich ex Jian-Qin Cu, Kunming



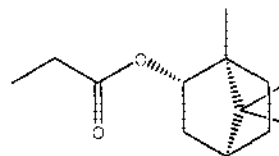
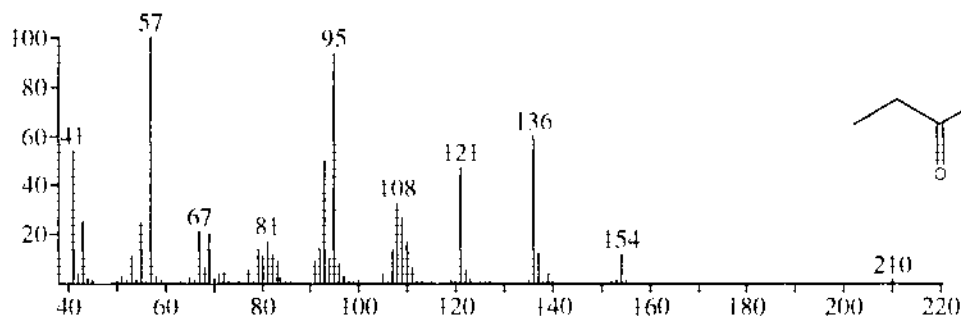
RT: 23.88 AI: 1383 KI: 1384 **Isobornyl propanoate**

CAS#: 2756-56-1 MF: C₁₃H₂₂O₂ FW: 210 MSD LIB#: 1443

CN: bicyclo(2.2.1)heptan-2-ol, 1,7,7-trimethyl-, propanoate, exo-

Synonyms: isoborneol propionate

Source: *Strobilanthes auriculatus* oil ex P. Weyerstahl; 0.70% *Strobilanthes auriculatus*, p. 567, in: *Flav. & Frag.: A World Persp.*, Lawrence, et al., Elsevier Amsterdam (1988); 0.30% *Ormenis mixta*; 0.06% *Chenopodium ambrosioides*



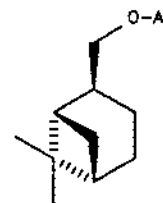
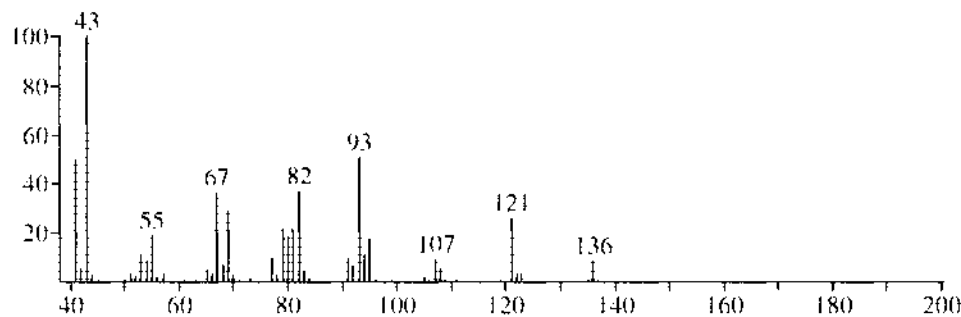
RT: 23.97 AI: 1385 KI: 1386 **Myrtanol acetate <trans->**

CAS#: 90934-53-5 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 1126

CN: bicyclo(3.1.1)heptane-2-methanol, 6,6-dimethyl-, acetate, (1S-(1 α ,2 α ,5 α))-

Synonyms: none

Source: acetylation of myrtanol (6428);



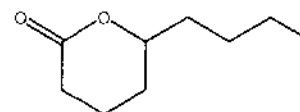
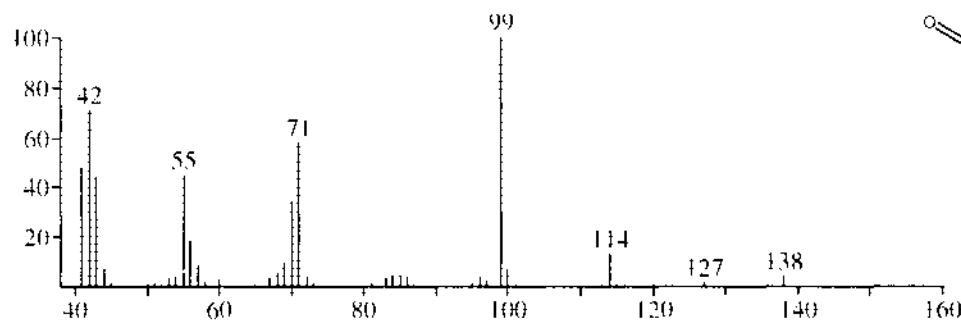
RT: 23.98 AI: 1385 KI: 1386 **Nonalactone < δ ->**

CAS#: 3301-94-8 MF: C₉H₁₆O₂ FW: 156 MSD LIB#: 1164

CN: 2H-pyran-2-one, 6-butyltetrahydro-

Synonyms: nonan-1,5-olide

Source: ref. cpd. ex P. Weyerstahl; 0.01% *Jasminum polyanthum*, Dragoco Rept. 5-21(1996)



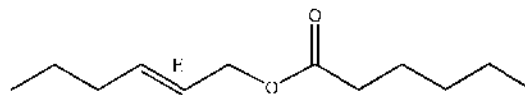
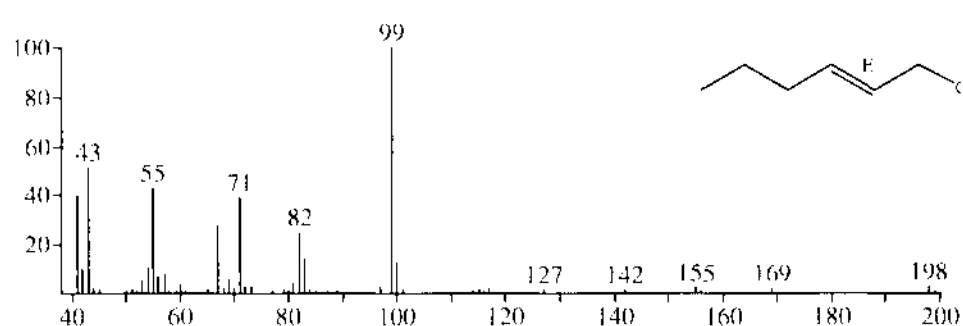
RT: 23.99 AI: 1385 K1: 1387 **Hexenyl caproate <(2E)->**

CAS#: 53398-86-0 MF: C₁₂H₂₂O₂ FW: 198 MSD LIB#: 2031

CN: hexanoic acid, (2E)-2-hexenyl ester

Synonyms: none

Source: Bedoukian Res.



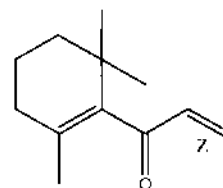
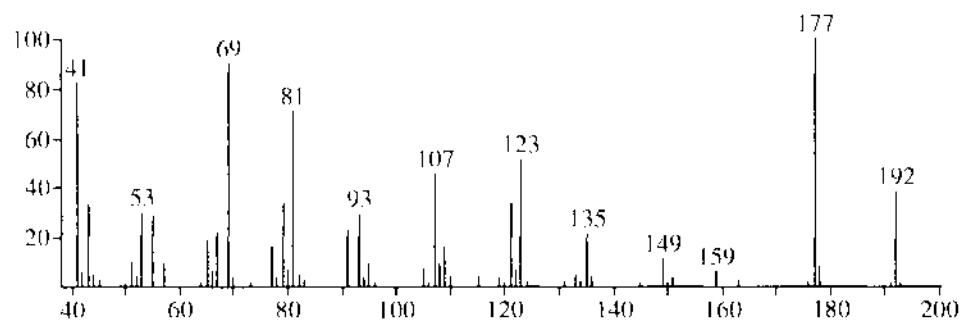
RT: 24.00 AI: 1386 K1: 1387 **Damascone <(Z)-β->**

CAS#: 23726-92-3 MF: C₁₃H₂₀O FW: 192 MSD LIB#: 553

CN: 2-buten-1 one, 1-(2,6,6 trimethyl-1 cyclohexen-1-yl)-, (Z)-

Synonyms: none

Source: Firmenich ex Jian Qin Co, Kunming



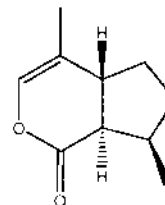
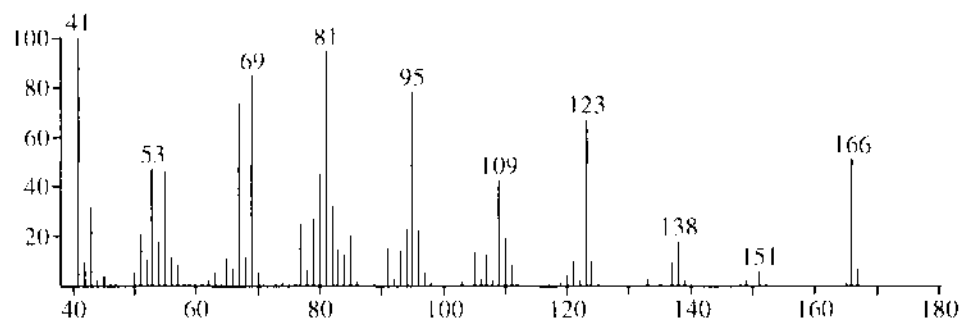
RT: 24.00 AI: 1386 K1: 1387 **Nepetalactone <4α,7α,7αβ->**

CAS#: 000-00-0 MF: C₁₀H₁₄O₂ FW: 166 MSD LIB#: 1136

CN: not assigned

Synonyms: none

Source: *Nepeta caesarea* oil ex Husnu Baser



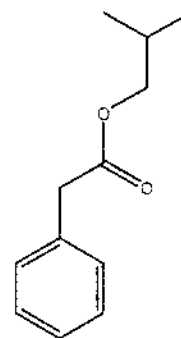
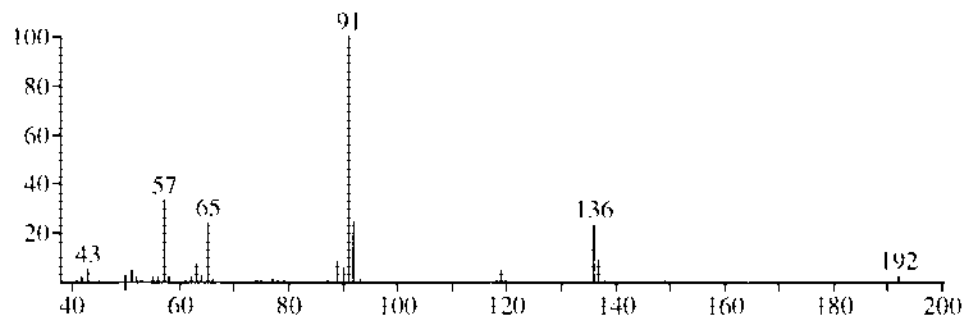
RT: 24.01 AI: 1386 KI: 1387 **Isobutyl phenylacetate**

CAS#: 102-13-6 MF: C₁₂H₁₆O₂ FW: 192 MSD LIB#: 1616

CN: benzoic acid, 2-methylpropyl ester

Synonyms: isobutyl α -toluate

Source: Aldrich Chem.



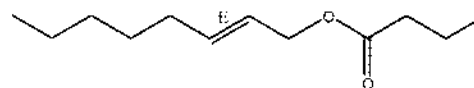
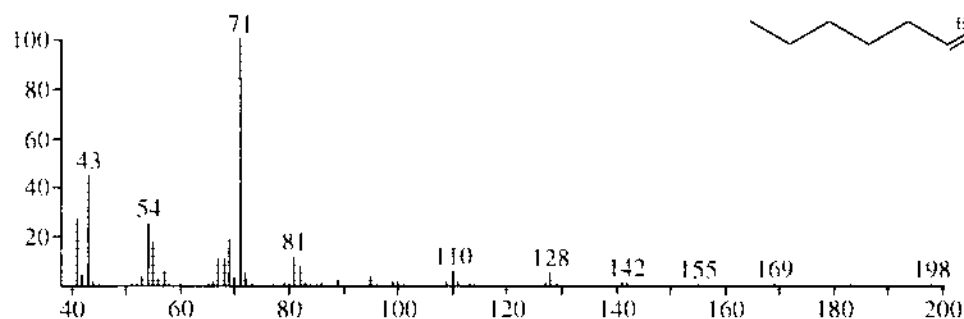
RT: 24.03 AI: 1386 KI: 1388 **Octenol butanoate <(2E)->**

CAS#: 84642-60-4 MF: C₁₂H₂₂O₂ FW: 198 MSD LIB#: 2080

CN: butanoic acid, (2E)-2-octenyl ester

Synonyms: none

Source: Bedoukian Res.



RT: 24.04 AI: 1387 KI: 1388 **Cubebene < β ->**

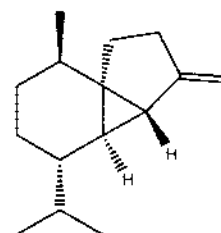
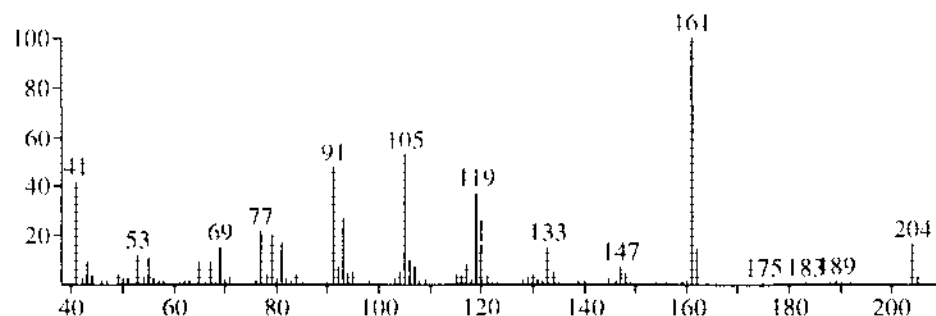
CAS#: 13744-15-5 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 468

CN: 1H-cyclopenta(1,3)cyclopropan(1,2)benzene, octahydro-7-methyl-3-methylene-4-(1-methylethyl)-, (3aS-(3a α ,3b β ,4 β ,7a,7aS*))-

Synonyms: none

Source: *Copaiba* oil ex Natl. Geo. Soc. expedition; 39.00% *Melissa officinalis*.

FEI 3:167(1988); 32.00% *Lippia carviadora* var. *minor*; 14.80% *Lippia ukambensis*



RT: 24.05 AI: 1387 KE: 1388 **Bourbonene < β >**

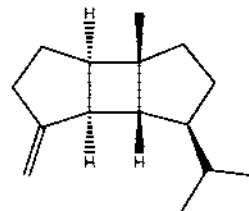
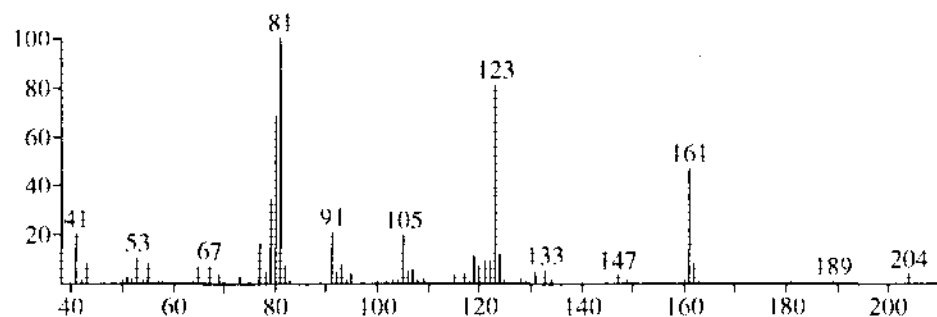
CAS#: 5208-59-3 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 653

CN: cyclobuta(1,2:3,4)dicyclopentene, decahydro-3a-methyl-6-methylene-1-(1-methylethyl)-, (1S-(1 α ,3 α ,3 β ,6 α ,6 β))-

Synonyms: none

Source: *Elsholtzia cristata* ex Dr. Vostrowsky; *Juniperus lucayana*; 4.30% *Origanum vulgare*.

Flavour Ind., 4:481(1973); 3.64% *Mentha longifolia*; 3.50% *Origanum laevigatum*



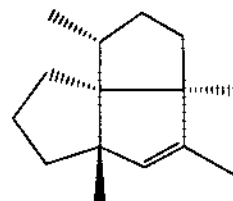
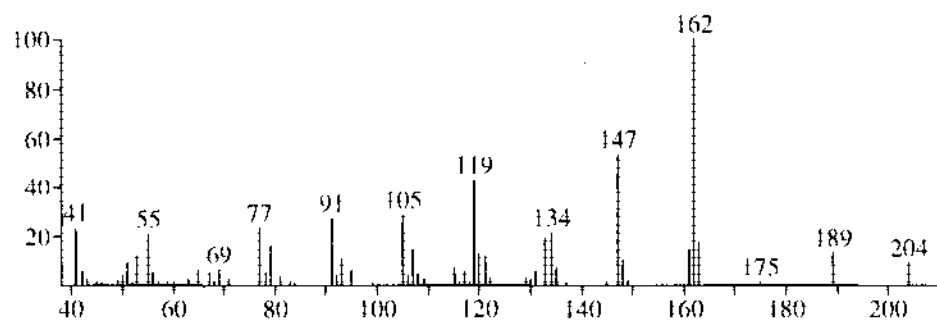
RT: 24.05 AI: 1387 KE: 1388 **Isocomene < α >**

CAS#: 65372-78-3 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 200

CN: cyclopenta(c)pentalene, 1,2,3,3,5A,6,7,8-octahydro-1,3a,4,5a-tetramethyl-, (1R-(1 α ,3 α ,5 α ,8 α R*))-

Synonyms: herkheyaradulene

Source: *Artemisia annua* root oil ex HJ Woerdenhag



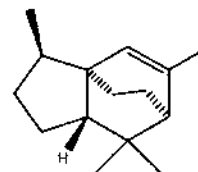
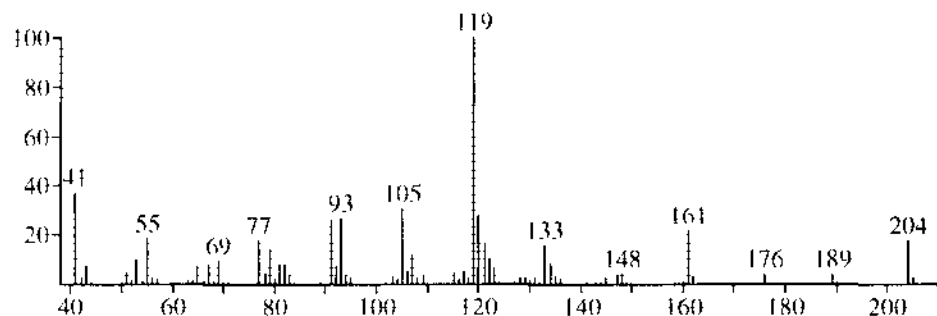
RT: 24.07 AI: 1387 KE: 1388 **Duprezianene < α >**

CAS#: 79801-29-9 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 960

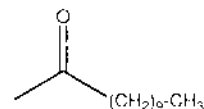
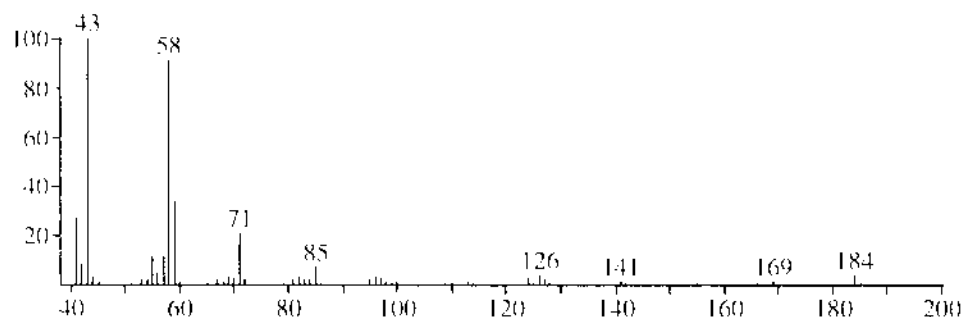
CN: 3a,6-ethano-3aH-indene, 1,2,3,6,7,7a-hexahydro-3,5,7,7-tetramethyl-, (3R,3aS,6S,7aS)-

Synonyms: none

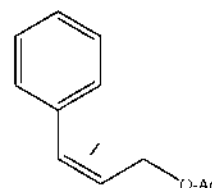
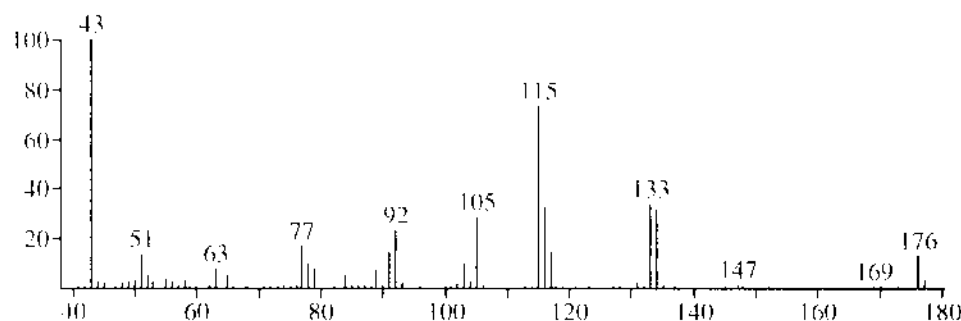
Source: *Juniperus thurifera* wood oil, Junicedrol fraction, AF Barrero, Spain



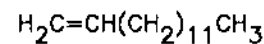
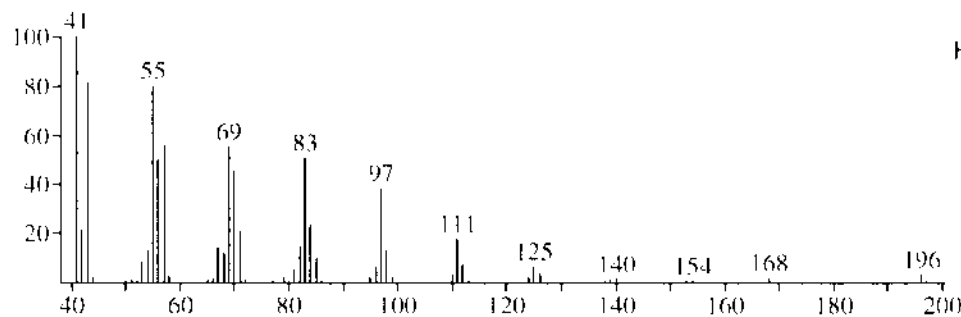
RT: 24.09 AI: 1388 KI: 1389 **Methyl decyl ketone (=2-dodecanone)**
 CAS#: 6175-49-1 MF: C₁₂H₂₄O FW: 184 MSD LIB#: 2192
 CN: 2-dodecanone
 Synonyms: dodecanone, 2-
 Source: Bedoukian Res.



RT: 24.10 AI: 1388 KI: 1389 **Cinnamyl acetate <(Z)->**
 CAS#: 77134-01-1 MF: C₁₁H₁₂O₂ FW: 176 MSD LIB#: 446
 CN: 2-propen-1-ol, 3-phenyl-, acetate, (Z)-
 Synonyms: cis-cinnamyl acetate
 Source: Pfaltz & Bauer ex H. Hills



RT: 24.10 AI: 1388 KI: 1389 **Tetradecene <1->**
 CAS#: 1120-36-1 MF: C₁₄H₂₈ FW: 196 MSD LIB#: 1215
 CN: tetradecene (1-)
 Synonyms: none
 Source: Olefins mix ex Aldrich & Sigma Chem.



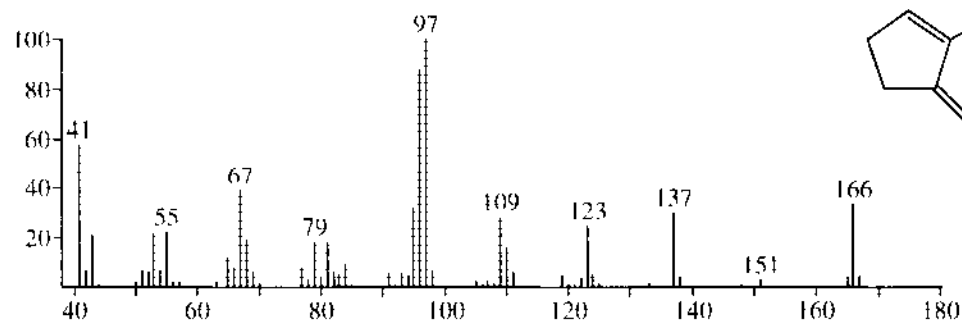
RT: 24.12 AI: 1388 KI: 1389 **Jasmone <iso->**

CAS#: 95-41-0 MF: C₁₁H₁₈O FW: 166 MSD LIB#: 2018

CN: 2-cyclopenten-1-one, 2-hexyl-

Synonyms: none

Source: Bedoukian Res. ex JJ Brophy



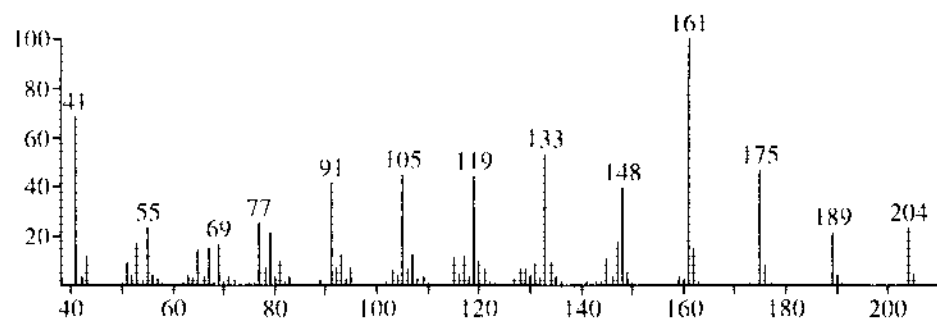
RT: 24.14 AI: 1389 KI: 1390 **Longifolene <iso->**

CAS#: 1135-66-6 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1028

CN: 2H-2,4a-methanonaphthalene, 1,3,4,5,6,7-hexahydro-1,1,5,5-tetramethyl-

Synonyms: isolongifolene

Source: Fluka Chem.



RT: 24.15 AI: 1389 KI: 1390 **Dodecanone <3->**

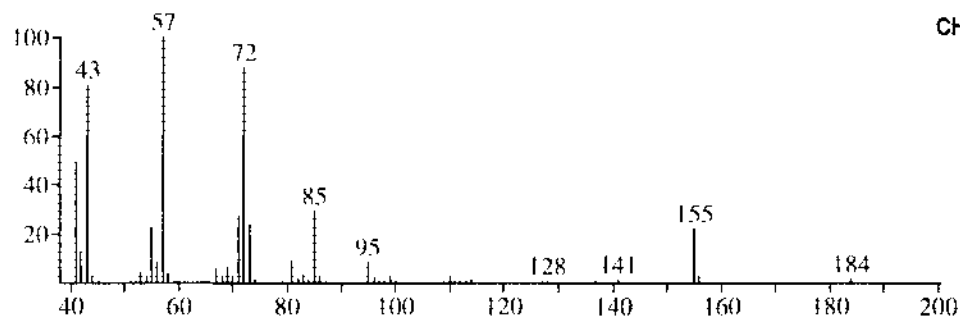
CAS#: 1534-27-6 MF: C₁₂H₂₄O FW: 184 MSD LIB#: 626

CN: 3-dodecanone

Synonyms: ethyl nonyl ketone

Source: ref. cpd. ex Art Tucker; 13.00% *Mentha x gentilis*, Phytochem 11:2639(1972);

0.10% *Narcissus poeticus* (absolute)



RT: 24.15 AI: 1389 KI: 1390 **Elemene <β>**

CAS#: 515-13-9 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 309

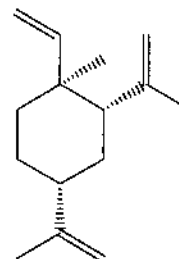
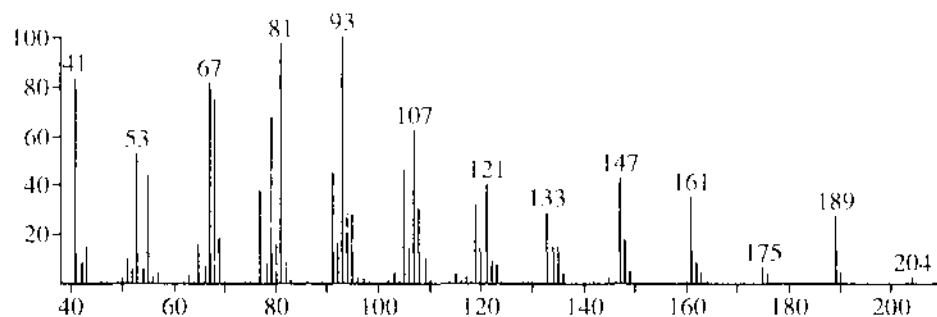
CN: cyclohexane, 1-ethenyl-1-methyl-2,4-bis(1-methylethenyl)-, (1S-(1α,2β,4β))-

Synonyms: none

Source: Black pepper distillation; 23.11 *Ocimum micranthum*, p. 177,

in: Flav. & Frag.: A World Persp., Lawrence, et al. (eds.), Proc. 10th Int. Cong. Ess. Oils,

Elsevier, Amsterdam (1988); 22.09% *Protium heptaphyllum*; 18.00% *Atractylodes lancea*



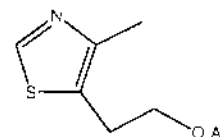
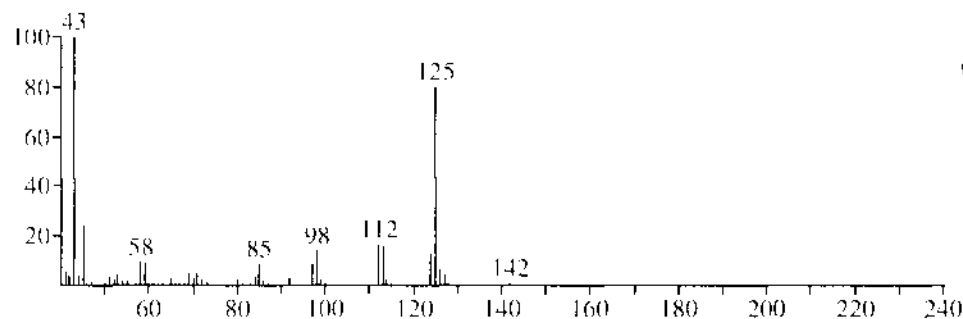
RT: 24.18 AI: 1390 KI: 1391 **Thiazole ethanol acetate <4-methyl-5>**

CAS#: 656-53-1 MF: C₈H₁₁N O₂S FW: 185 MSD LIB#: 1476

CN: 5-thiazoleethanol, 4-methyl-, acetate (ester)

Synonyms: none

Source: Pyrazine Specialties ex Art Tucker



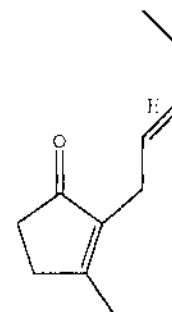
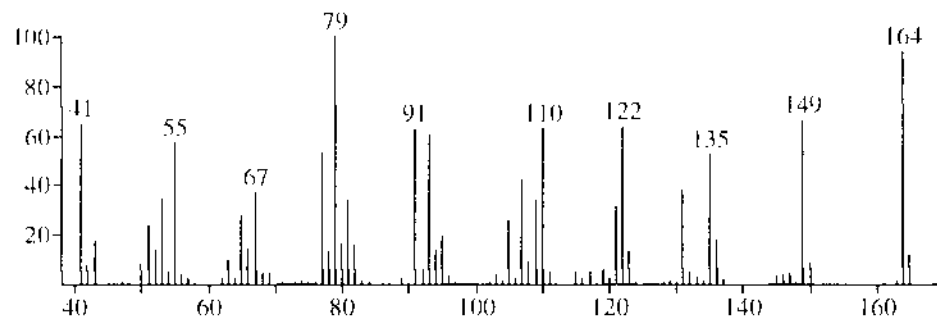
RT: 24.19 AI: 1390 KI: 1391 **Jasmone <(E)>**

CAS#: 6261-18-3 MF: C₁₁H₁₆O FW: 164 MSD LIB#: 959

CN: 2-cyclopenten-1-one, 3-methyl-2-(2-pentenyl)-, (E)-

Synonyms: trans-jasmone

Source: Pfaltz & Bauer ex Keith Harkiss



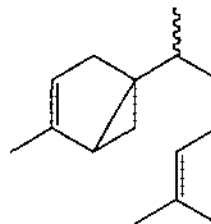
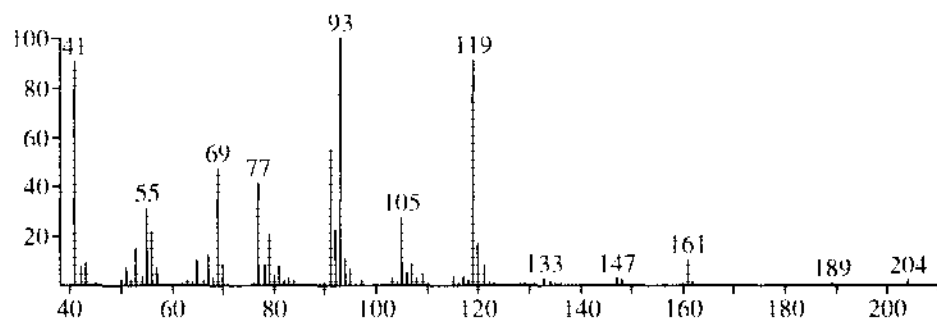
RT: 24.19 AI: 1390 KE: 1391 **Sesquithujene <7-epi->**

CAS#: 159407-35-9 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1291

CN: bicyclo(3.1.0)hex-2-ene, 5-(1,5-dimethyl-4-hexenyl)-2-methyl-

Synonyms: none

Source: *Phoebe* oil ex Peter Weyerstahl



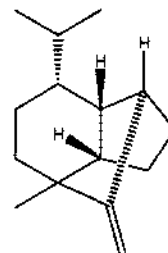
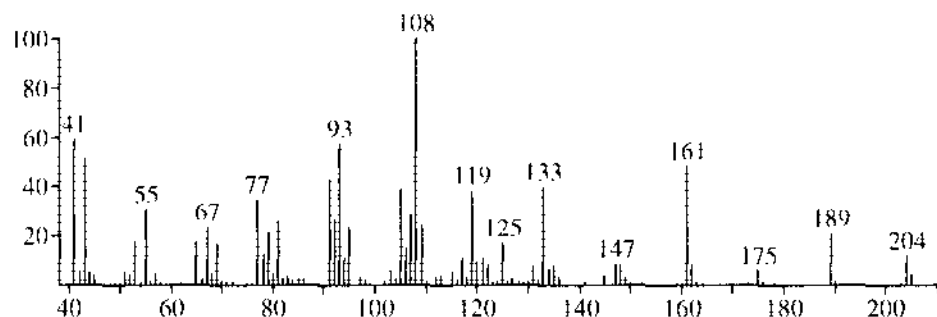
RT: 24.21 AI: 1390 KE: 1391 **Sativene**

CAS#: 6813-05-4 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1314

CN: 1,4-methano-1H-indene, octahydro-4-methyl-8-methylene-7-(1-methylethyl)-, (1R-(1 α ,3 α ,4 α ,7 α ,7 α))-

Synonyms: none

Source: *Pinus edulis* resin ex Larry Cool



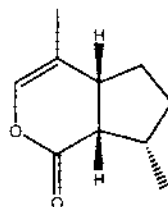
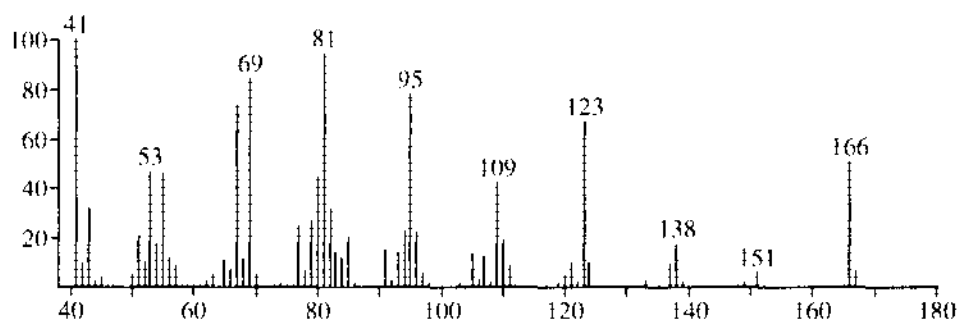
RT: 24.24 AI: 1391 KE: 1392 **Nepetalactone <4 α -,7- β ,7 α ->**

CAS#: 21651-53-6 MF: C₁₀H₁₄O₂ FW: 166 MSD LIB#: 1135

CN: cyclopentate)pyran-1(4 α H)-one, 5,6,7,7 α -tetrahydro-4,7-dimethyl-, (4 α R-(4 α ,7 β ,7 α))-

Synonyms: nepetalactone, cis, cis-

Source: *Nepeta caesarea* oil ex Husnu Baser



RT: 24.26 AI: 1392 KI: 1392 **Jasmone <(Z)->**

CAS#: 488-10-8 ME: C₁₁H₁₆O FW: 164 MSD LIB#: 953

CN: 2-cyclopenten-1-one, 3-methyl-2-(2-pentenyl)-, (Z)-

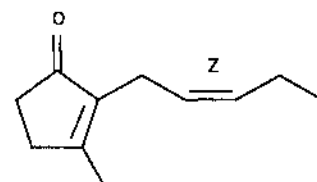
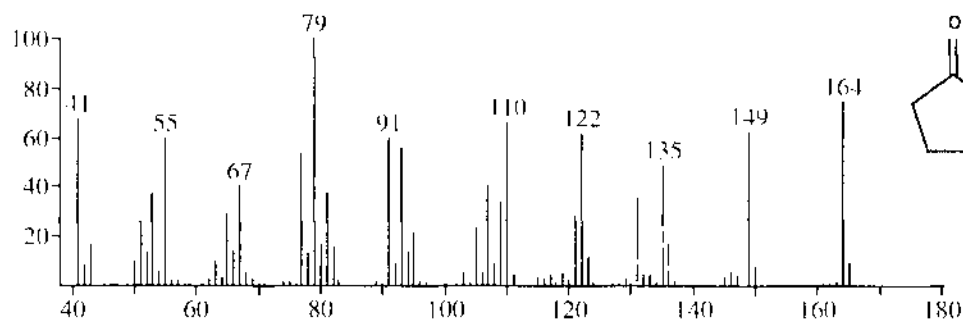
Synonyms: none

Source: Jasmin absolute, Firmenisch ex AF Thomas; 10.66% *Jasminum officinale*.

p. 333, in: Flav. & Frag.: A World Persp., Lawrence, et al. (eds.), Proc. 10th Int. Cong. Ess. Oils,

Elsevier, Amsterdam (1988); 8.70% *Jasminum officinale*;

3.50% *Lonicera japonica*



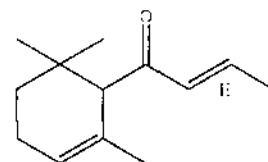
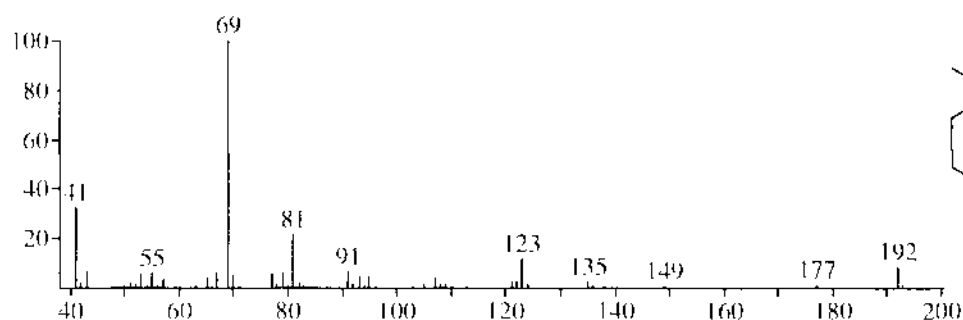
RT: 24.28 AI: 1392 KI: 1393 **Damascone <(E)-α->**

CAS#: 57549-92-5 ME: C₁₃H₂₀O FW: 192 MSD LIB#: 556

CN: 2-buten-1-one, 1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-, (E)-

Synonyms: none

Source: Firmenisch ex Jian-Qin Cu, Kunming



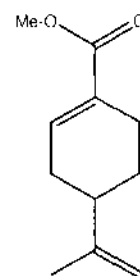
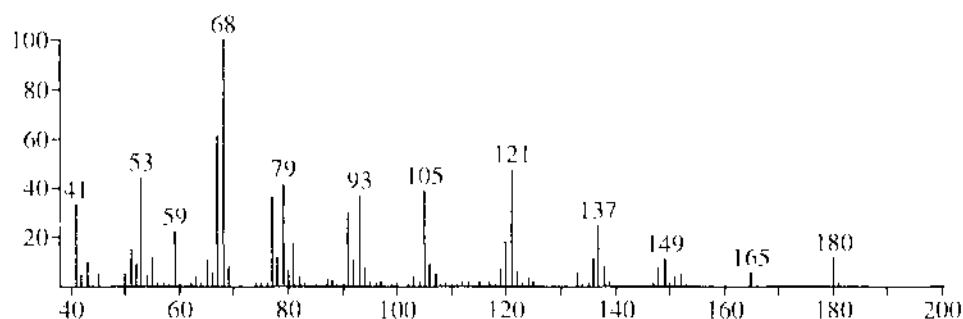
RT: 24.30 AI: 1392 KI: 1393 **Methyl perillate**

CAS#: 54298-90-7 ME: C₁₁H₁₆O₂ FW: 180 MSD LIB#: 1109

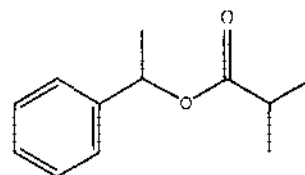
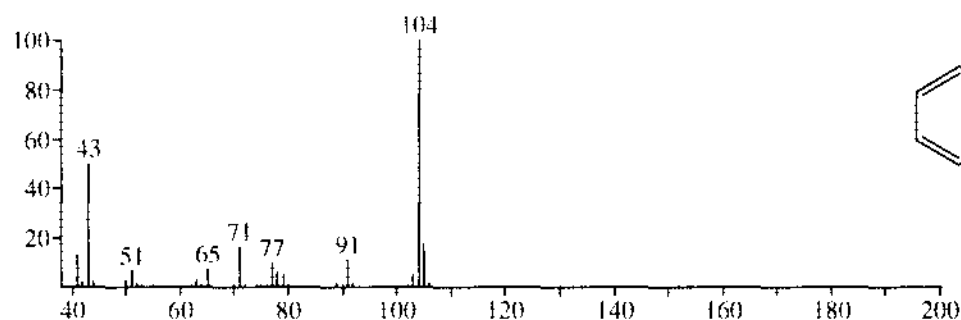
CN: 1-cyclohexene-1-carboxylic acid, 4-(1-methylethenyl)-, methyl ester

Synonyms: none

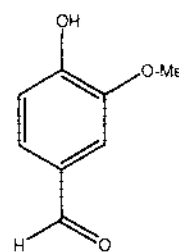
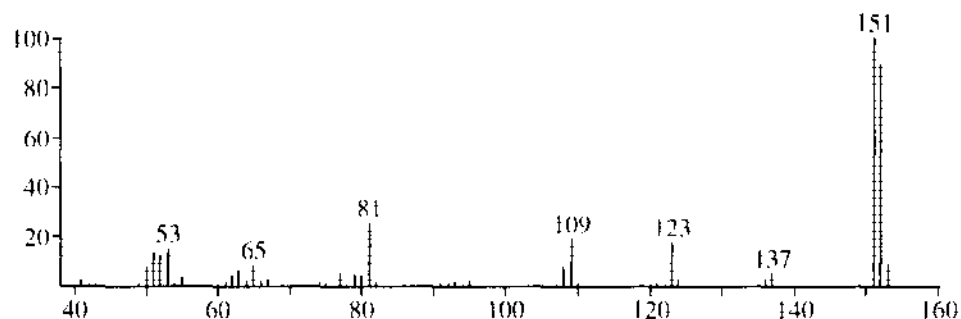
Source: ref. cpd. ex P. Weyerstahl



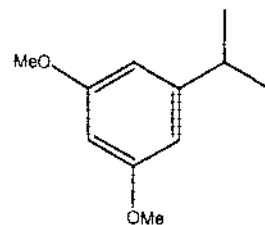
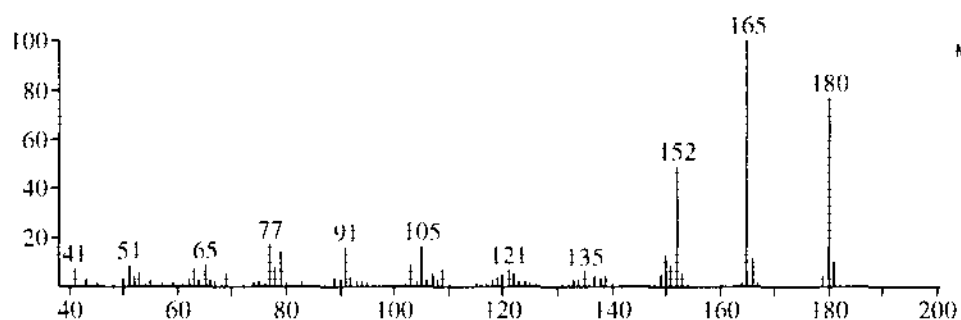
RT: 24.31 AI: 1393 KI: 1393 **Phenyl ethyl isobutanoate**
 CAS#: 7775-39-5 MF: C₁₂H₁₆O₂ FW: 192 MSD LIB#: 1287
 CN: propanoic acid, 2-methyl-, 1-phenylethyl ester
 Synonyms: styrallyl isobutyrate
 Source: Aldrich Chem. ex Art Tucker



RT: 24.32 AI: 1393 KI: 1394 **Vanillin**
 CAS#: 121-33-5 MF: C₈H₈O₃ FW: 152 MSD LIB#: 1533
 CN: 4-hydroxy-3-methoxybenzaldehyde
 Synonyms: lioxin
 Source: Matheson Coleman & Bell Co.: 85.00% *Vanilla fragrans*, Flav. Food Addit. 7:292(1976);
 4.60% *Skimmia laureola*; 2.00% *Aristolochia asclepiadifolia*



RT: 24.37 AI: 1394 KI: 1395 **Benzene <1,3-dimethoxy-5-(1-methylethyl)-**
 CAS#: 73109-76-9 MF: C₁₁H₁₆O₂ FW: 180 MSD LIB#: 1914
 CN: benzene, 1,3-dimethoxy-5-(1-methylethyl)-
 Synonyms: 5-isopropylresorcinol dimethyl ether
 Source: *Xanthostemon verticillatus* ex JJ Brophy



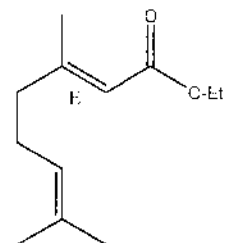
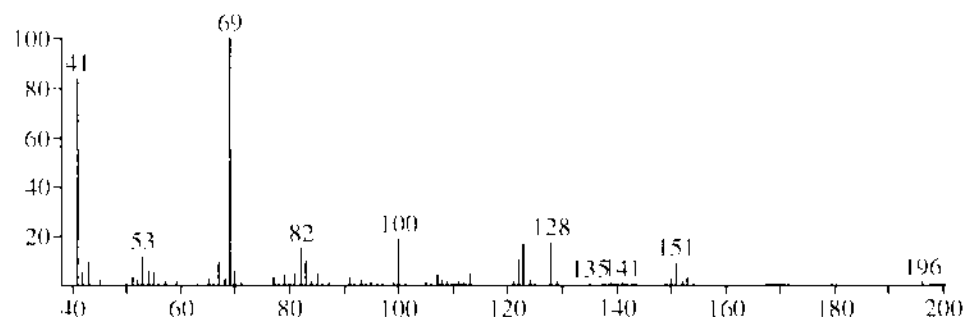
RT: 24.37 AI: 1394 KI: 1395 **Ethyl geranate**

CAS#: 32659-21-5 ME: C₁₂ H₂₀ O₂ FW: 196 MSD LIB#: 671

CN: 2,6-octadienoic acid, 3,7-dimethyl-, ethyl ester, (E)-

Synonyms: none

Source: Bedoukian Res. ex Art Tucker



RT: 24.40 AI: 1395 KI: 1395 **Ethyl decanoate**

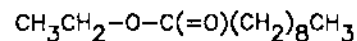
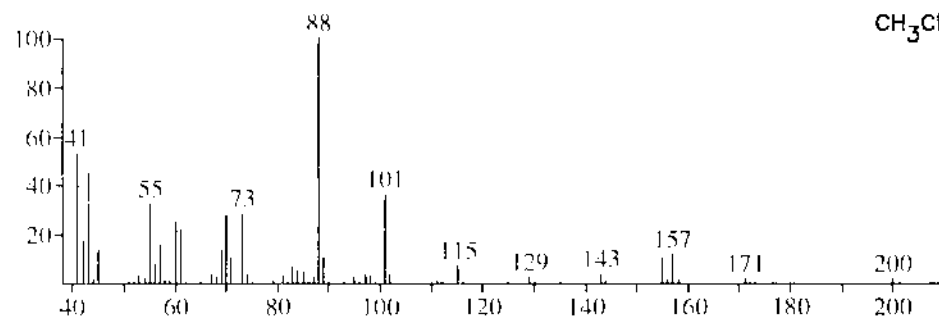
CAS#: 110-38-3 ME: C₁₂ H₂₄ O₂ FW: 200 MSD LIB#: 668

CN: decanoic acid, ethyl ester

Synonyms: capric acid, ethyl ester; ethyl caprate

Source: Aldrich Chem.: 2.77% *Dendranthema vestitum*, p.95, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong (1993);

1.37% *Mandragora officinarum*; 0.63% *Spondias cytherea*



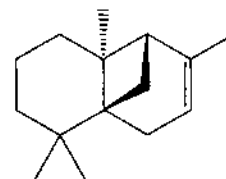
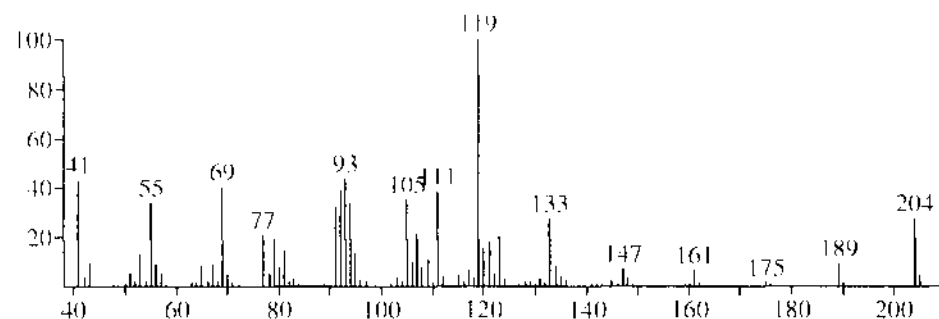
RT: 24.44 AI: 1396 KI: 1396 **Chamipinene <α>**

CAS#: 79562-96-2 ME: C₁₅ H₂₄ FW: 204 MSD LIB#: 2176

CN: 4H-1,4a-methanonaphthalene, 1,5,6,7,8,8a hexahydro-2,5,5,8a-tetramethyl-, (1α,4α,8αβ)-

Synonyms: none

Source: *Cupressus macrocarpa* oil ex Larry Cool



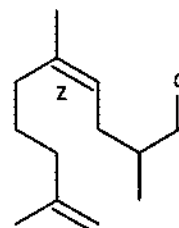
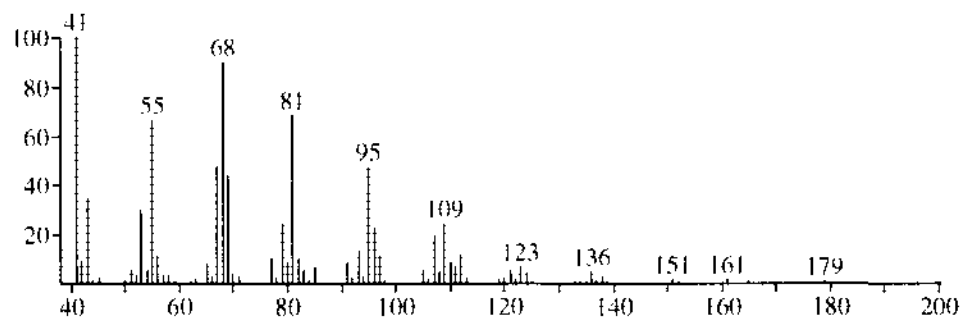
RT: 24.51 AI: 1397 KI: 1397 **Trimenal <(Z)->**

CAS#: 300733-87-3 MF: C₁₃H₂₂O FW: 194 MSD LIB#: 1515

CN: 4,9-decadienal, 2,5,9-trimethyl-, (4Z)-

Synonyms: none

Source: Firmenich ex Jian-Qin Co, Kunming



RT: 24.54 AI: 1398 KI: 1398 **Cyperene**

CAS#: 2387-78-2 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 829

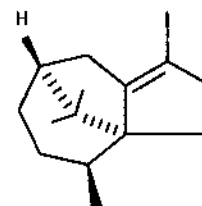
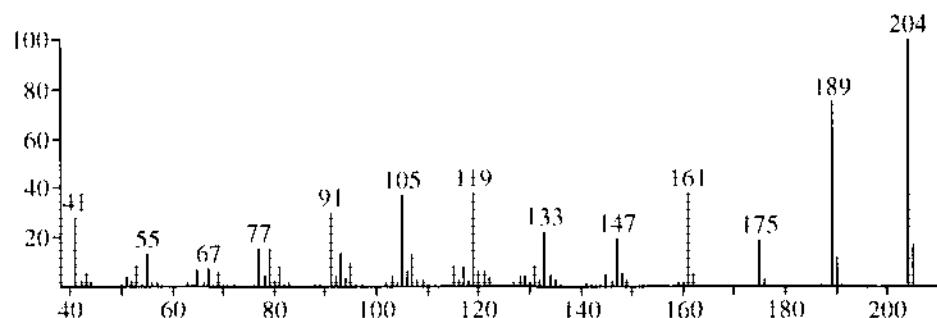
CN: 3H-3a,7-methannoazulene, 2,4,5,6,7,8-hexahydro-1,4,9,9-tetramethyl-, (3aR-(3aα,4β,7a))-

Synonyms: none

Source: Hymenaea oil ex Jean Langenheim; 15.75% *Cyperus scariosus*, Proceedings,

11th Int. Cong. of Ess. Oils, New Delhi, India, Frag. & Flav. 4:161(1989);

8.00% *Scleria striatimix*; 2.10% *Daniellia oliveri*



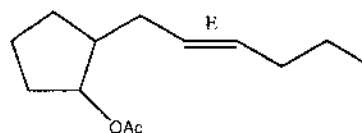
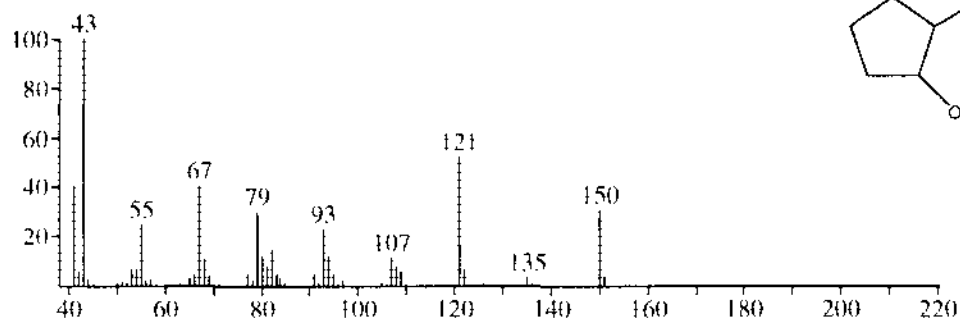
RT: 24.55 AI: 1398 KI: 1398 **Jasmonyl acetate <(E)->**

CAS#: 000-00-0 MF: C₁₃H₂₂O₂ FW: 210 MSD LIB#: 2136

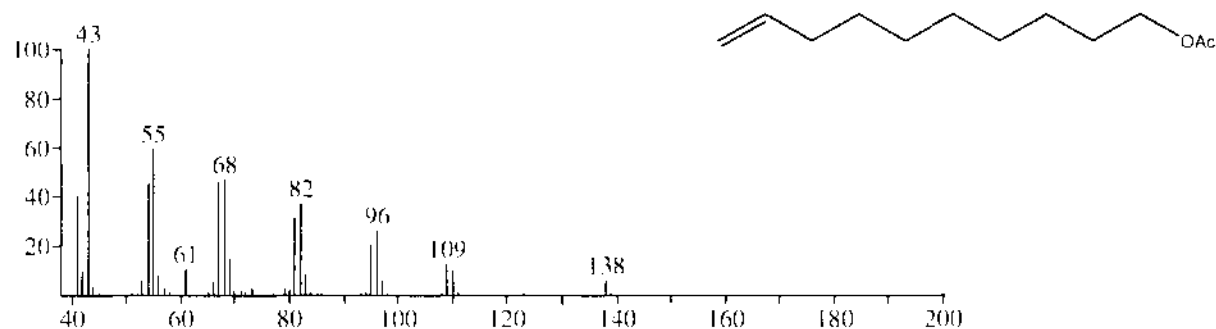
CN: cyclopentanol, 2-(2-hexenyl)-, acetate, (E)-

Synonyms: none

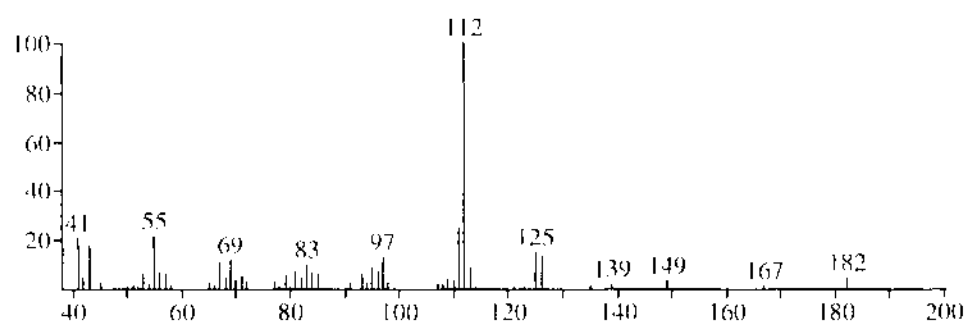
Source: Bedoukian Res.



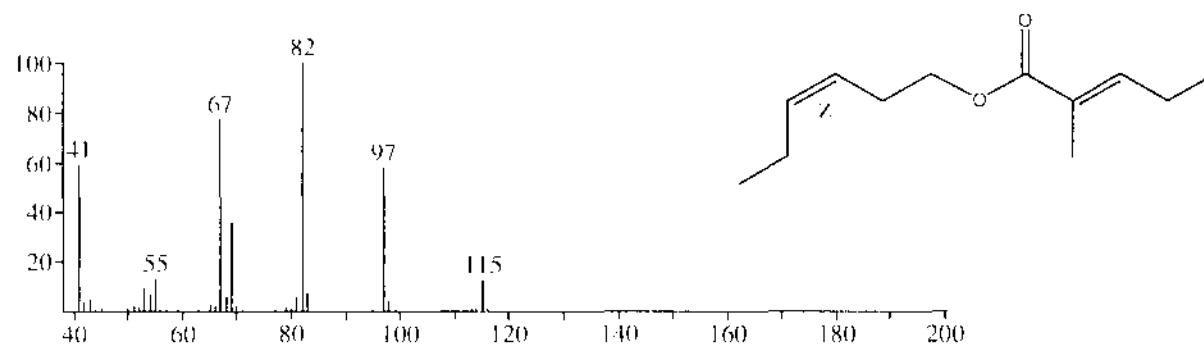
RT: 24.57 AI: 1399 KI: 1399 **Decenyl acetate <9>**
 CAS#: 50816-18-7 MF: C₁₂H₂₂O₂ FW: 198 MSD LIB#: 2073
 CN: 9-decen-1-ol, acetate
 Synonyms: none
 Source: Bedoukian Res.



RT: 24.57 AI: 1399 KI: 1399 **Geosmin**
 CAS#: 19700-21-1 MF: C₁₂H₂₂O FW: 182 MSD LIB#: 1770
 CN: 4a(2H)-Naphthalenol, octahydro-4,8a-dimethyl-, (4S,4aS,8aR)-
 Synonyms: none
 Source: Supelco Inc.



RT: 24.61 AI: 1400 KI: 1400 **Hexenyl 2-methyl-2-pentenoate <(3Z)>**
 CAS#: 76649-17-7 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 1972
 CN: 2-pentenoic acid, 2-methyl-, (3Z)-3-hexenyl ester
 Synonyms: none
 Source: Bedoukian Res. ex JJ Brophy



RT: 24.61 AI: 1400 KI: 1400 **Tetradecane <n->**

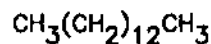
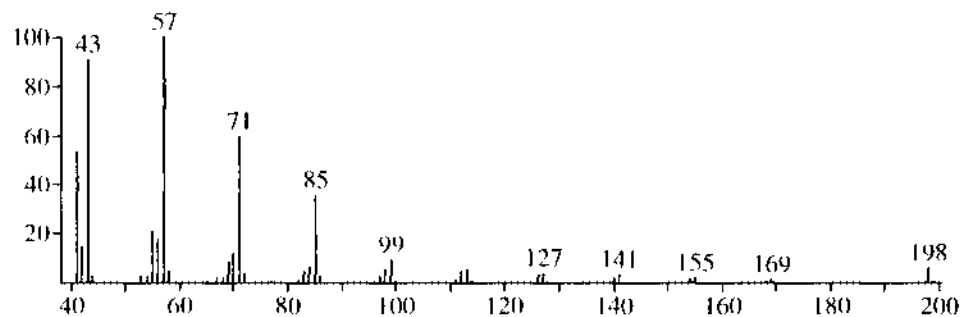
CAS#: 629-59-4 MF: C₁₄H₃₀ FW: 198 MSD LIB#: 94

CN: tetradecane

Synonyms: none

Source: Alltech Assoc.: 0.60% *Brassica juncea* (flowers), Nippon Nogeik.

Kaishi 54:99(1980); 0.58% *Kaempferia galanga* (rhizome); 0.41% *Minusops elengi*



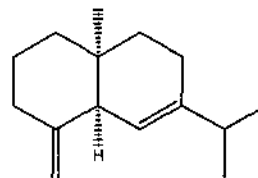
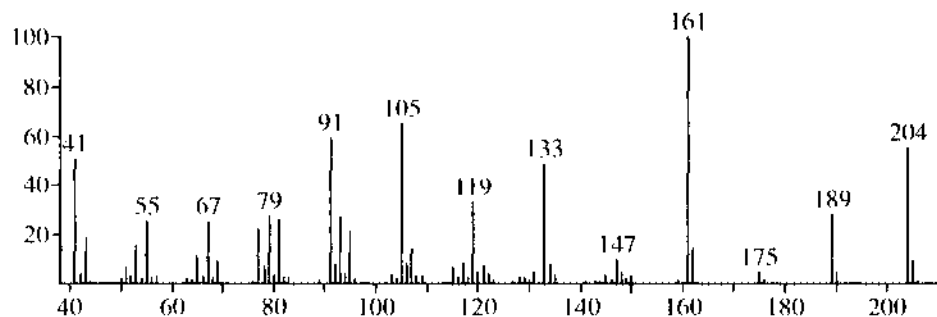
RT: 24.62 AI: 1400 KI: 1400 **Sibirene**

CAS#: 14029-18-6 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1853

CN: naphthalene, 1,2,3,4,4a,5,6,8a-octahydro-4a-methyl-1-methylene-7-(1-methylethyl)-, (4aS,7S)-

Synonyms: none

Source: *Juniperus drupacea* wood pentane ext., RP Adams #8796



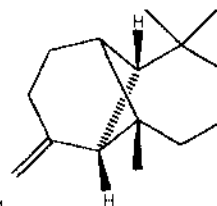
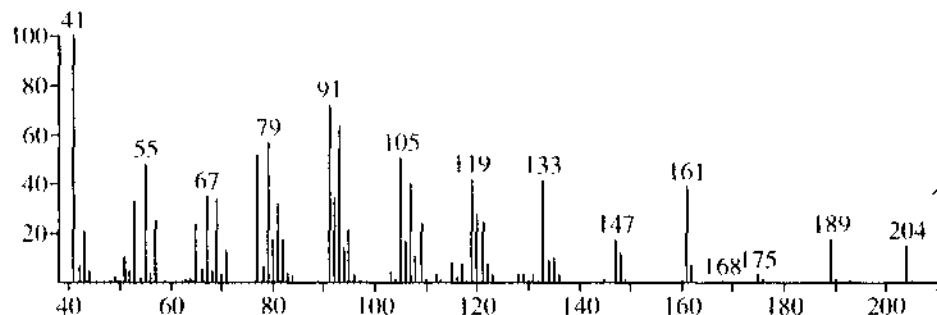
RT: 24.64 AI: 1400 KI: 1400 **Longipinene <β->**

CAS#: 41432-70-6 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1033

CN: tricyclo(5.4.0.02.8)undecane, 2,6,6-trimethyl-9-methylene-, stereoisomer

Synonyms: none

Source: *Scapania undulata* oil ex Larry Cool; 0.10% *Pinus sibirica*, JEOR 8:549(1996); 0.01% *Pinus pinaster*



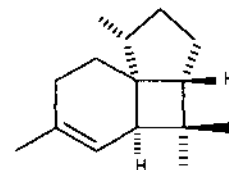
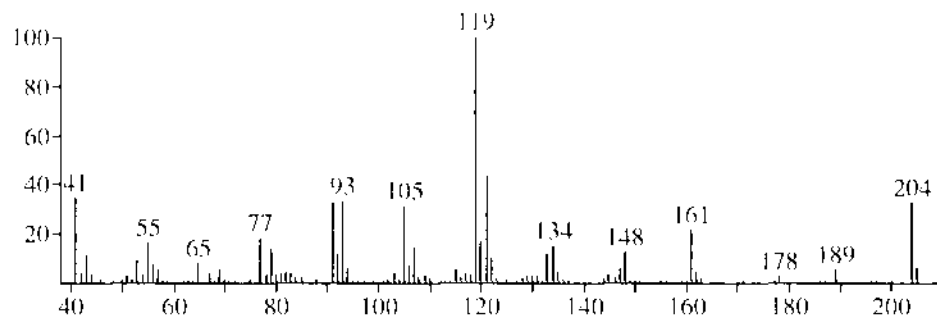
RT: 24.69 AI: 1401 KI: 1402 **Italicene <iso>**

CAS#: 94482-89-0 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 767

CN: cyclopenta(1,4)cyclobuta(1,2)benzene, 1,2,3,3A,4,4A,7,8-octahydro-1,4,4,6-tetramethyl-, (1a,3a β ,4aa,8aR*)-

Synonyms: none

Source: *Helichrysum italicum* oil ex P. Weyerstahl



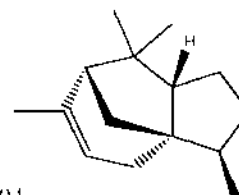
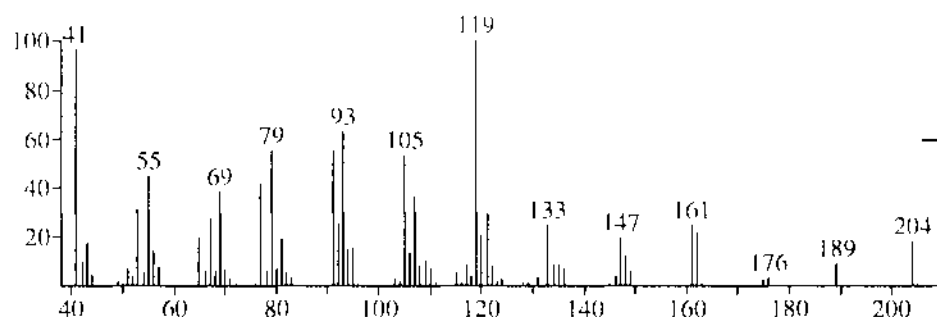
RT: 24.71 AI: 1402 KI: 1402 **Funebrene < α >**

CAS#: 50894-66-1 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 408

CN: 1H-3a,7-methanoazulene, 2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-, (3R-(3a,3aa,7a,8aa))-

Synonyms: 1,7-di-epi- α -cedrene

Source: Fluka Chem.



RT: 24.75 AI: 1403 KI: 1403 **Methyl eugenol**

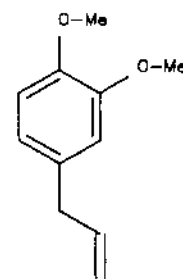
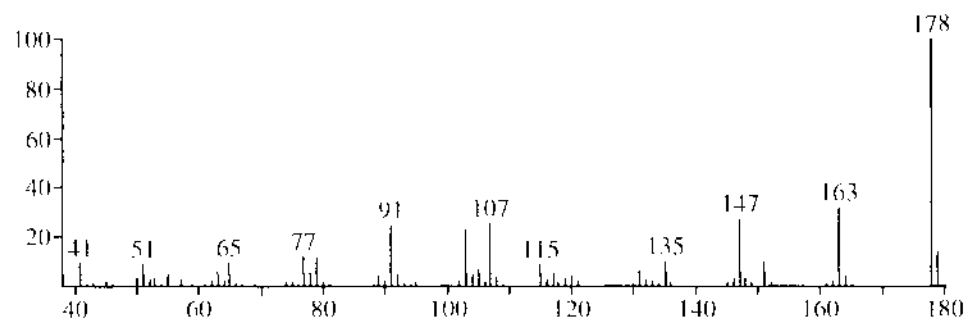
CAS#: 93-15-2 MF: C₁₁H₁₄O₂ FW: 178 MSD LIB#: 1096

CN: benzene, 1,2-dimethoxy-4-(2-propenyl)-

Synonyms: 1,2-dimethoxy-4-allylbenzene; veratrole methyl ether

Source: K & K Chem. ex H. Hills; 97.70% *Melaleuca bracteata* (leaf), FEJ 6:139(1991);

97.40% *Melaleuca leucadendra*; 67.80% *Empleurum fragrans*



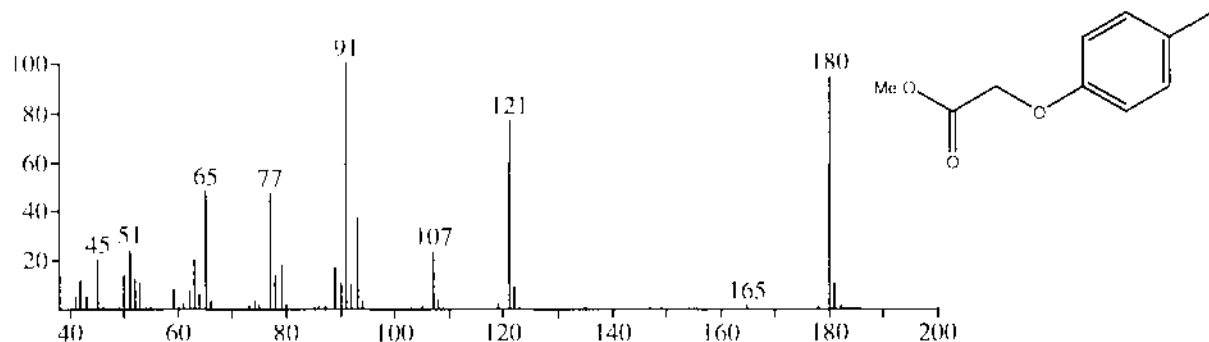
RT: 24.76 AI: 1403 KI: 1403 **Cresol acetate <methyl->**

CAS#: 38768-63-7 MF: C₁₀H₁₂O₃ FW: 180 MSD LIB#: 1688

CN: acetic acid, (4-methylphenoxy)-, methyl ester

Synonyms: methyl p-tolyloxy acetate

Source: Aldrich Chem.



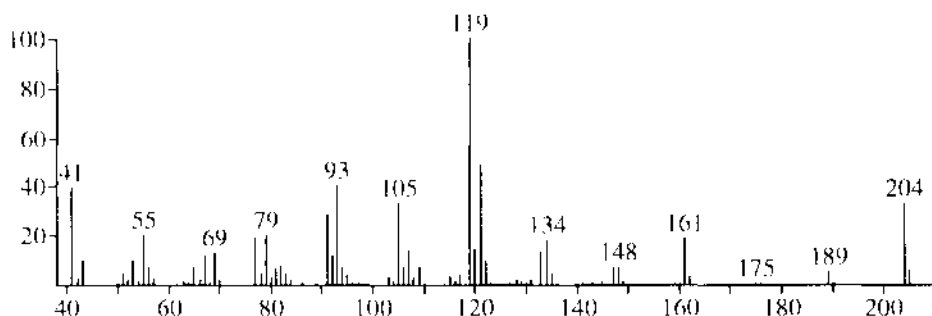
RT: 24.84 AI: 1405 KI: 1405 **Italicene**

CAS#: 94535-52-1 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 769

CN: cyclopenta(1,4)cyclobuta(1,2)benzene, 1,2,3,3,4,4A,7,8-octahydro-1,4,4,6-tetramethyl-, (1 α ,3 $\alpha\alpha$,4 $\alpha\beta$,8 α S*)-

Synonyms: none

Source: *Helichrysum italicum* oil ex P. Weyerstahl; 4.00% *Helichrysum italicum*, p. 177, in: Progress in Essential Oil Research (Proc. Intern. Symp. on Ess. Oils), E.-J. Brunke Ed., Gruyter Publ., Berlin (1986)



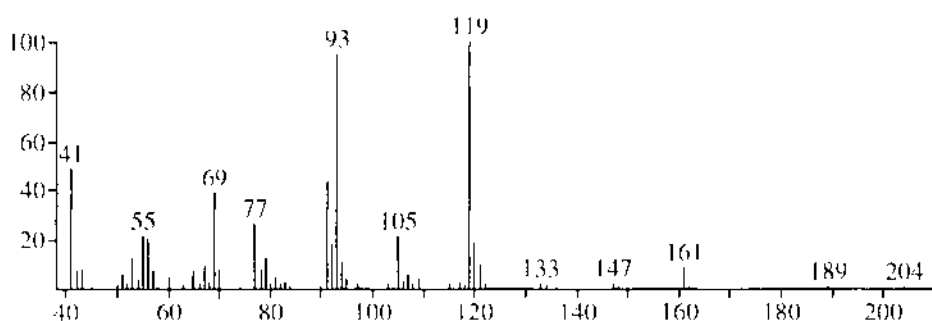
RT: 24.84 AI: 1405 KI: 1405 **Sesquithujene**

CAS#: 58319-06-5 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 2165

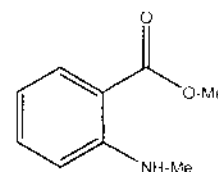
CN: bicyclo(3.1.0)hex-2-ene, 5-(1,5-dimethyl-4-hexenyl)-2-methyl-

Synonyms: none

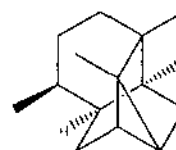
Source: W. Australian sandalwood oil ex Synise ex Norbert Braum; 1.00 *Phoebe porosa*, JEOR 7:415(1995)



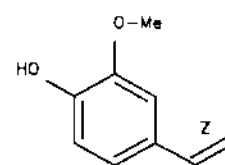
RT: 24.86 AI: 1405 KI: 1406 **Methyl anthranilate** <methyl-n>
CAS#: 85-91-6 MF: C9 H11 N O2 FW: 165 MSD LIB#: 1225
C¹N: benzoic acid, 2-(methylamino)-, methyl ester
Synonyms: none
Source: Mandarin orange oil ex G. Dugo



RT: 24.90 AI: 1406 KI: 1407 **Cycloseychellene**
CAS#: 52617-34-2 MI: C15 H24 FW: 204 MSD LIB#: 1643
CN: 1,5-methanocycloprop(a)indene, decahydro-1a,1b,4,5a-tetramethyl-,
(1S,1aS,1bR,4S,5S,5aS,6aR)-
Synonyms: none
Source: Patchouli oil ex RS Thakur: 0.30% *Pogostemon cablin* (West India), Perf. & Flav.
15:77(1990); 0.26% *Pogostemon cablin* (Indonesia); 0.17% *Pogostemon cablin* (Costa Rica)



RT: 24.90 AI: 1406 KI: 1407 **Isoeugenol <(Z)->**
CAS#: 5912-86-7 MF: C10 H12 O2 FW: 164 MSD LIB#: 865
CN: phenol, 2-methoxy-4-(1-propenyl)-, (Z)-
Synonyms: cis-4-propenylguaiacol; cis-isoeugenol
Source: ref. epd. ex E. von Rudloff: 0.50% *Wistaria sinensis*, p. 57, in: Progress in
Essential Oil Research (Proc. Intern. Symp. on Ess. Oils), E.-J. Brunke Ed.,
Gruyter Publ., Berlin (1986); 0.25% *Hedychium coronarium*; 0.24% *Jasminum officinale*



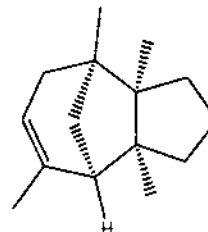
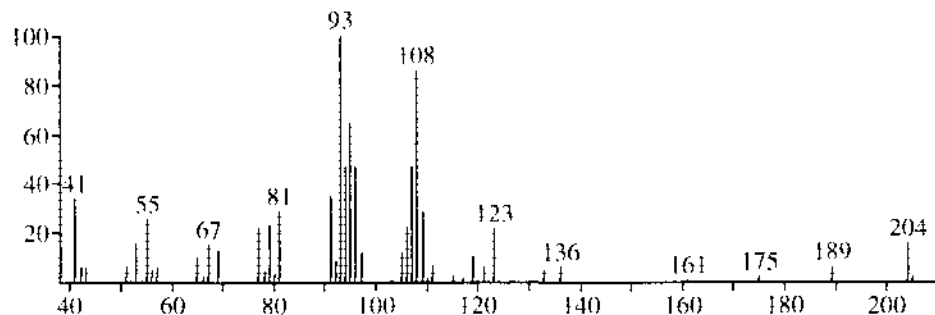
RT: 24.92 AI: 1407 KI: 1407 **Barbatene <α>**

CAS#: 53060-59-6 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1808

CN: 4,8-methanoazulene, 1,2,3,3a,4,5,8,8a-octahydro-3a,4,7,8a-tetramethyl-, (3aR,4R,8R,8aS)-

Synonyms: Pompenene<α>, Gymnomitrene<α>

Source: Arabidopsis flower oil, ex J. Gerzhenson



RT: 24.92 AI: 1407 KI: 1407 **Longifolene**

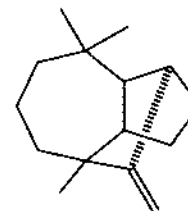
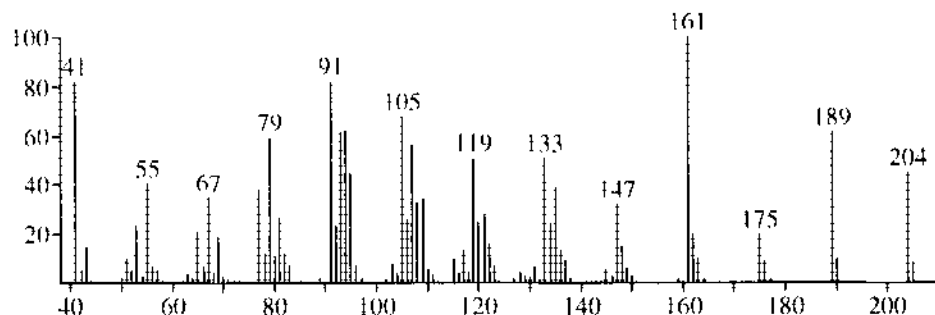
CAS#: 475-20-7 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1027

CN: decahydro-4,8,8-trimethyl-9-methylene-1,4-methanoazulene

Synonyms: junipene; kuromatsucene

Source: Givaudan ex H. Hills; 18.36% *Pogostemon cablin*, FFJ 5:109(1990);

5.30% *Pinus kesiya*; 4.60% *Ferula asafoetida*



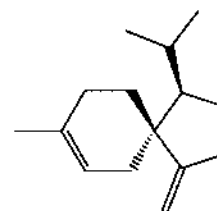
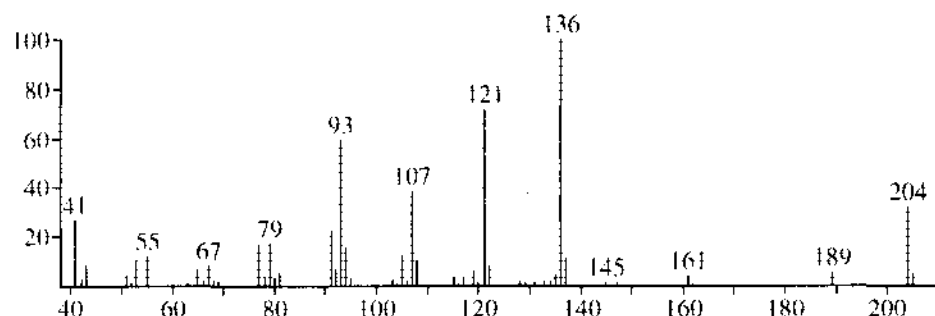
RT: 24.93 AI: 1407 KI: 1408 **Acora-3,7(14)-diene**

CAS#: 55732-78-0 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1921

CN: spiro(4.5)dec-7-ene, 8-methyl-1-methylene-4-(1-methylethyl)-, (4R,5R)-

Synonyms: none

Source: *Cupressus macrocarpa* leaf oil ex Larry Cool



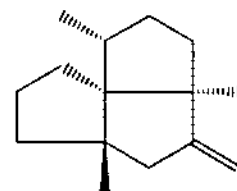
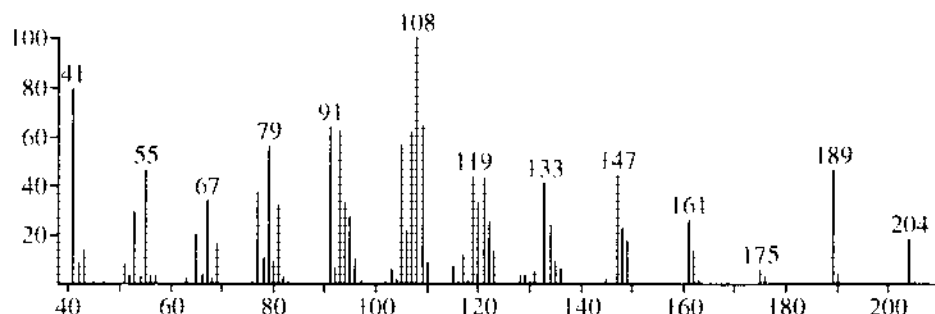
RT: 24.94 AI: 1407 KI: 1408 **Isocomene <β>**

CAS#: 71596-72-0 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1949

CN: cyclopentate)pentalene, decahydro-1,3a,5a-trimethyl-4-methylene-, (1α,3α,5αβ,8αR*)-

Synonyms: none

Source: *Echinopos giganteus* oil ex P. Weyerstahl



RT: 24.94 AI: 1407 KI: 1408 **Decyl acetate**

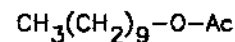
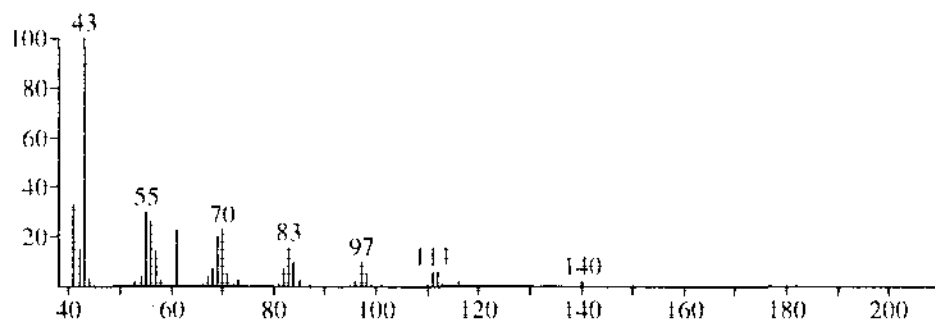
CAS#: 112-17-4 MF: C₁₂H₂₄O₂ FW: 200 MSD LIB#: 572

CN: acetic acid, decyl ester

Synonyms: decanol acetate; decanyl acetate

Source: ref. cpd. ex E von Rudloff; 7.00% *Hibiscus abelmoschus*,

Helv. Chim. Acta 60:1155(1977); 1.30% *Polygonum odoratum*; 0.40% *Citrus sinensis*



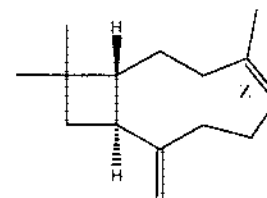
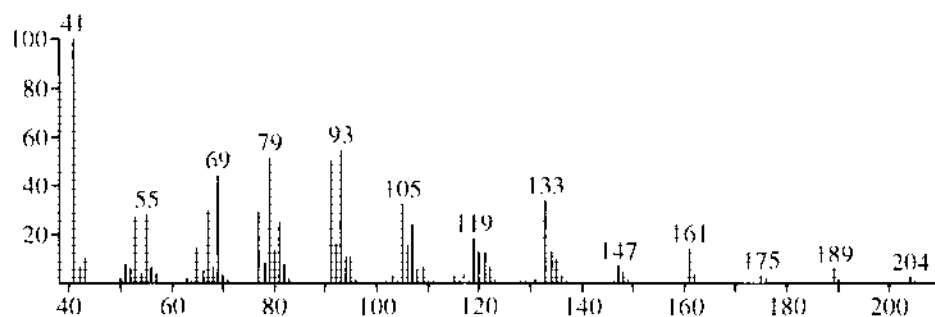
RT: 24.95 AI: 1408 KI: 1408 **Caryophyllene <(Z)>**

CAS#: 118-65-0 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 386

CN: bicyclo(7.2.0)undec-4-ene, 4,11,11-trimethyl-8-methylene-, (1R-(1R*,4Z,9S*))-

Synonyms: isocaryophyllene; caryophyllene, iso-

Source: Fluka Chem.; 13.67% *Jasmine sambac*, p. 83, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong(1993); 6.61% *Neocinnamomum delavayi*; 3.98% *Acronychia oligophlebia*



RT: 24.95 AI: 1408 KE: 1408 **Dodecanal**

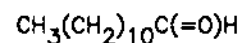
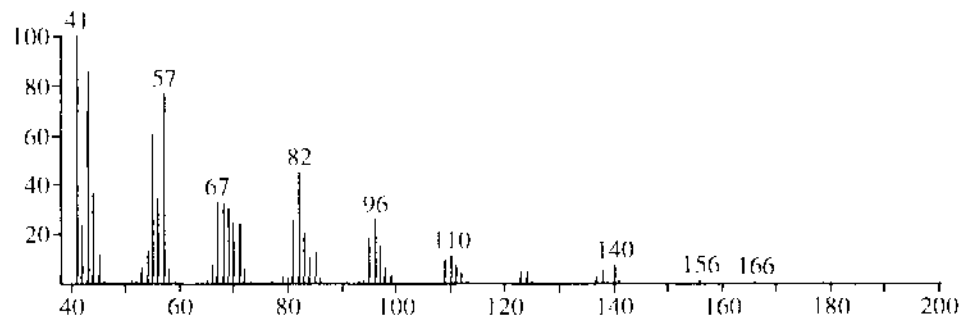
CAS#: 112-54-9 MI: C₁₂H₂₄O FW: 184 MSD LIB#: 624

CN: dodecanal

Synonyms: lauric aldehyde; lauraldehyde

Source: ICN Chem. ex Art Tucker; 33.60% *Polygonum minus*, JEOR 2:167(1990);

26.50% *Machilus bombycina*; 16.27% *Coriandrum sativum*



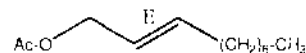
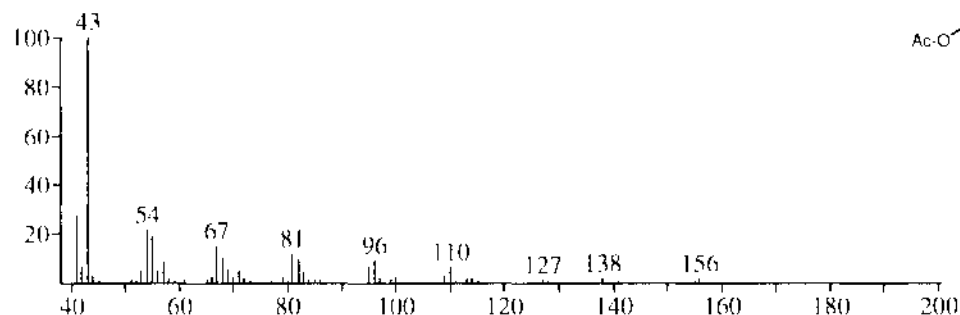
RT: 24.96 AI: 1408 KE: 1408 **Decenyl acetate <(2E)->**

CAS#: 2497-23-6 MI: C₁₂H₂₂O₂ FW: 198 MSD LIB#: 583

CN: 2-decen-1-ol, acetate, (E)-

Synonyms: trans-2-decenyl acetate

Source: Bedoukian Res. ex Art Tucker



RT: 25.00 AI: 1409 KE: 1409 **Gurjunene <α>**

CAS#: 489-40-7 MI: C₁₅H₂₄ FW: 204 MSD LIB#: 764

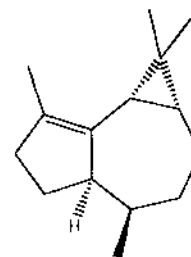
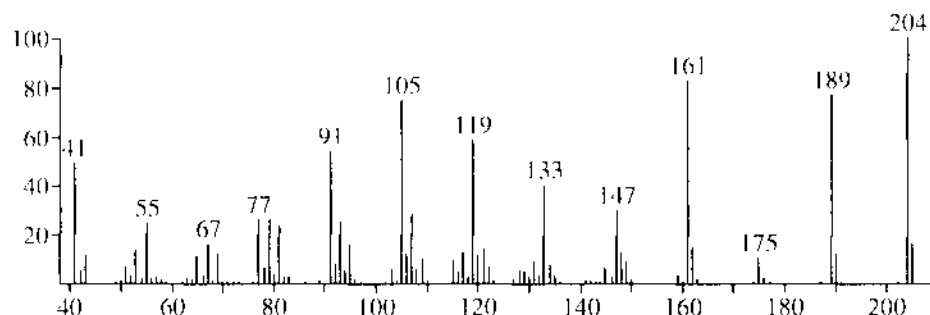
CN: 1H-cycloprop(e)azulene, 1a,2,3,4,4a,5,6,7h-octahydro-1,1,4,5-tetramethyl-,

(1aR-(1aα,4a,4aβ,7bα))-

Synonyms: none

Source: Roure Bertrand ex H. Hills; 47.50% *Dipterocarpus turbinatus*,

Phytochem 5:858(1966); 7.64% *Annona squamosa* (root); 3.90% *Pogostemon cablin*



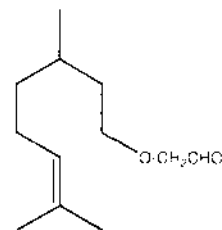
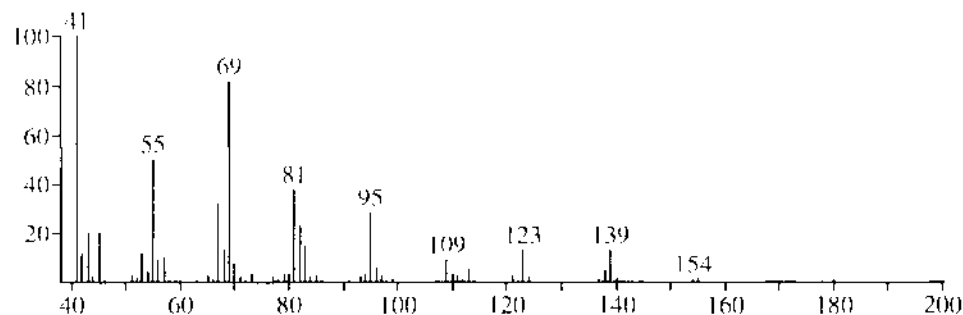
RT: 25.01 AI: 1409 KI: 1409 **Citronellyl oxy-acetaldehyde**

CAS#: 7492-67-3 MF: C₁₂H₂₂O₂ FW: 198 MSD LIB#: 457

CN: not assigned

Synonyms: none

Source: Bedoutkian Res. ex Art Tucker



RT: 25.06 AI: 1410 KI: 1411 **Cedrene <α>**

CAS#: 469-61-4 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 939

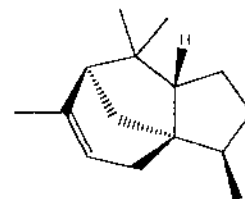
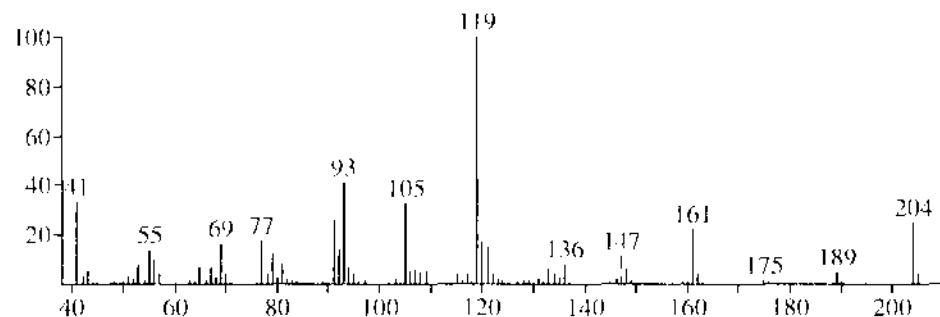
CN: 1H-3a,7-methanoazulene, 2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-, (3R-(3α,3β,7β,8α))-

Synonyms: cedr-8-ene

Source: *J. recurva* wood oil Et Ac Fract J ODA, Agric. Biol. Chem. 41:201(1977);

25.39% *Michelia yunnanensis*, p. 18, in: Aromatic Plants & Essential Constituents,

Peace Book Co., Hong Kong(1993); 24.55% *Juniperus virginiana*; 24.10% *Juniperus ashei*



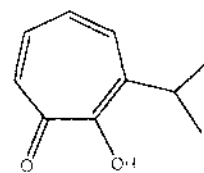
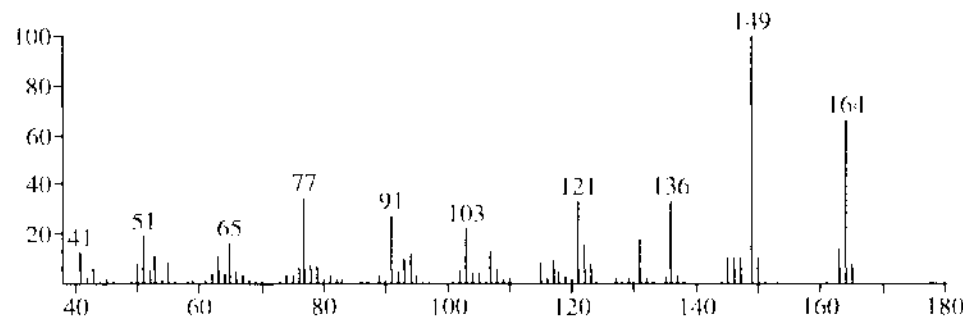
RT: 25.06 AI: 1410 KI: 1411 **Thujaplicin <α>**

CAS#: 1946-74-3 MF: C₁₀H₁₂O₂ FW: 164 MSD LIB#: 1494

CN: 2,4,6-cycloheptatrien-1-one, 2-hydroxy-3-(1-methylethyl)-

Synonyms: 3-isopropyltropolone

Source: ref. epd. ex E. von Rudloff; 1.25% *Thuja occidentalis*, JFOR 7:489(1995)



RT: 25.10 AI: 1411 KI: 1412 **Bergamotene < α -cis->**

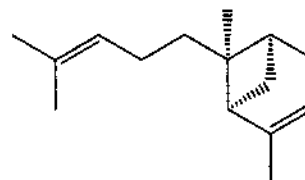
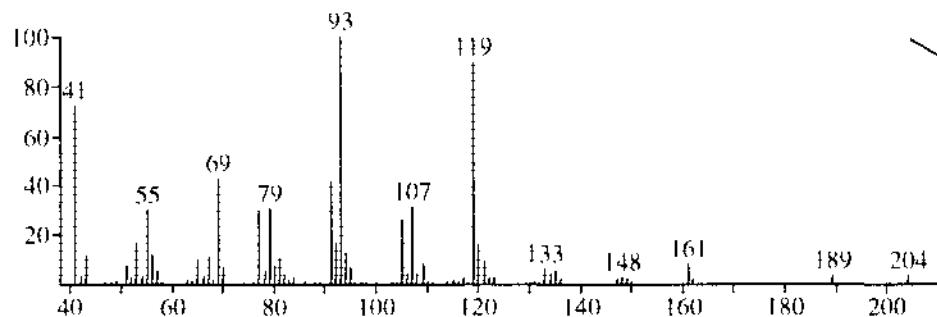
CAS#: 18252-46-5 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 995

CN: bicyclo[3.1.1]hept-2-ene, 2,6-dimethyl-6-(4-methyl-3-pentenyl)-(1 α ,5 α ,6 β)-

Synonyms: none

Source: Lemon oil, Lorann Inc.; 11.10% *Orthodon calveriei*, JEOR 7:111(1995);

9.90% *Erigeron canadensis*; 5.00% *Commiphora erythraea*



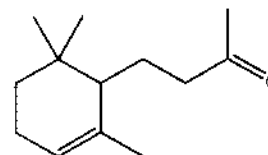
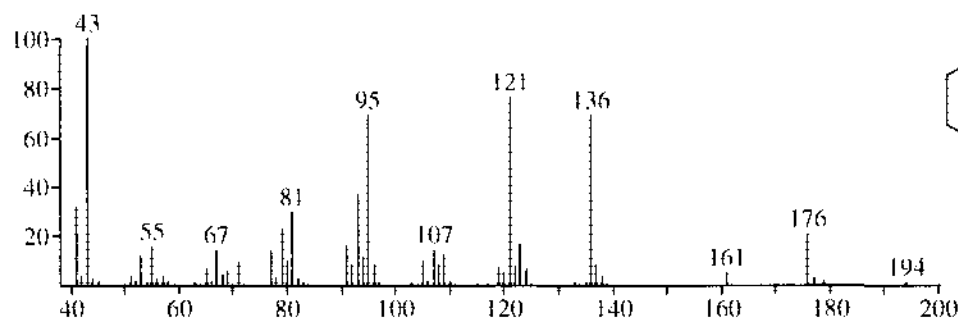
RT: 25.10 AI: 1411 KI: 1412 **Ionone <dihydro- α ->**

CAS#: 31499-72-6 MF: C₁₃H₂₂O FW: 194 MSD LIB#: 1916

CN: 2-butanone, 4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-

Synonyms: none

Source: Bedoukian Res. ex JJ Brophy



RT: 25.11 AI: 1411 KI: 1412 **Funebrene <2- ϵ - β ->**

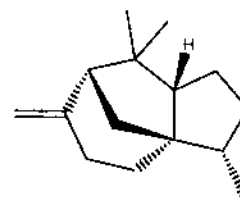
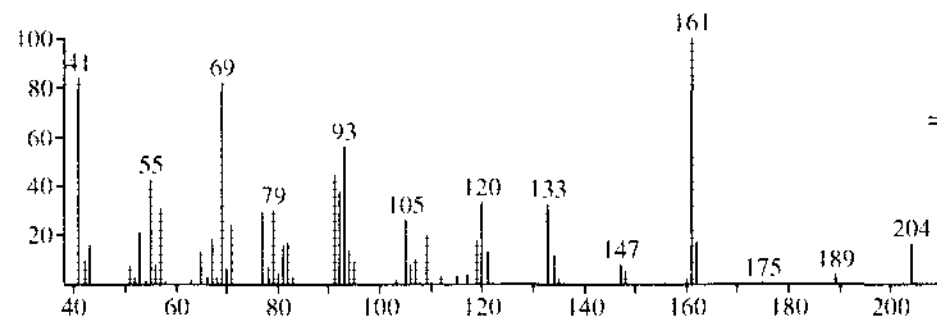
CAS#: 854154-72-6 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1907

CN: 1H-3a,7-methanoazulene, octahydro-3,8,8-trimethyl-6-methylene-,

{3R-(3 β ,3 α ,7 α ,8 α)}-

Synonyms: di- ϵ - β -cedrene, 1,7-

Source: *Lomatium rigidum* ex Vasu Dev



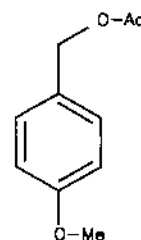
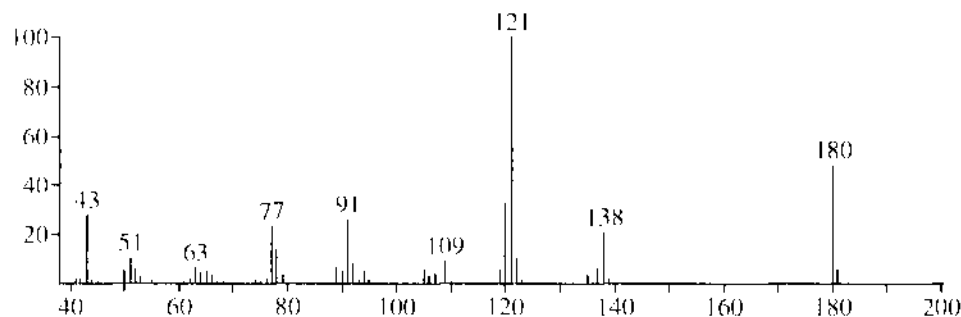
RT: 25.13 AI: 1412 KI: 1413 **Anisyl acetate <p>**

CAS#: 1331-83-5 MF: C₁₀H₁₂O₃ FW: 180 MSD LIB#: 173

CN: benzenemethanol, ar-methoxy-, acetate

Synonyms: none

Source: K & K ex H. Hills



RT: 25.15 AI: 1412 KI: 1413 **Ionol <β>**

CAS#: 22029-76-1 MF: C₁₃H₂₂O FW: 194 MSD LIB#: 1954

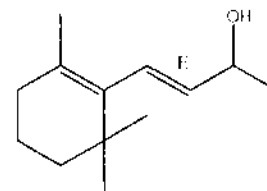
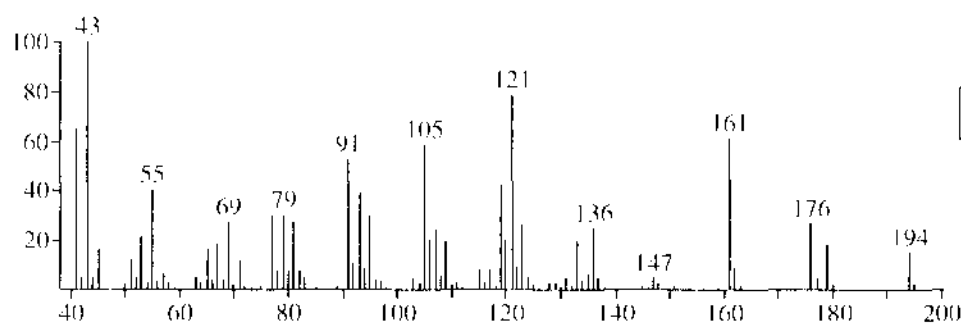
CN: 3-buten-2-ol, 4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-

Synonyms: none

Source: Bedoukian Res. ex JJ Brophy; 0.30% *Michelia champaca*.

Proc. 11th Cong. Ess. Oils. New Delhi, India 4:1(1989); 0.20% *Boronia megastigma*;

0.09% *Fagraea berteriana* (flower)



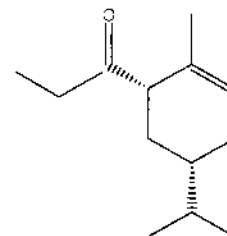
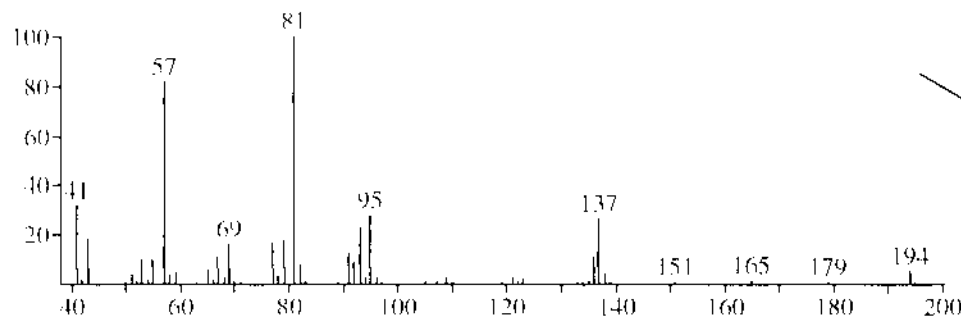
RT: 25.15 AI: 1412 KI: 1413 **Nerone <cis>**

CAS#: 41766-72-7 MF: C₁₃H₂₂O FW: 194 MSD LIB#: 1144

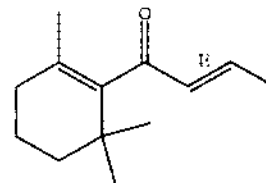
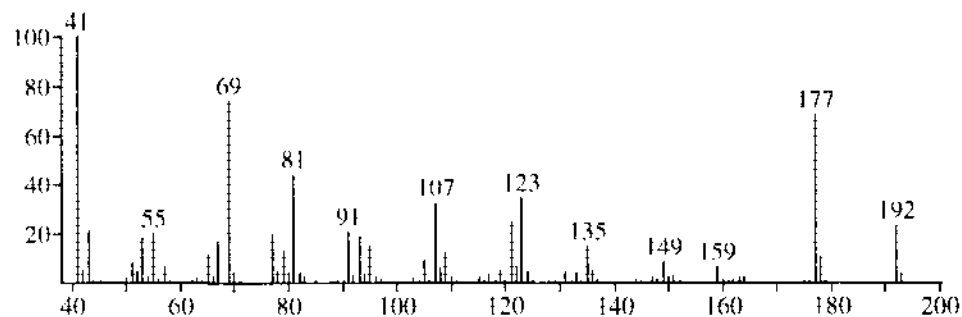
CN: 1-propanone, 1-(2-methyl-5-(1-methylethyl)-2-cyclohexen-1-yl)-,cis-

Synonyms: none

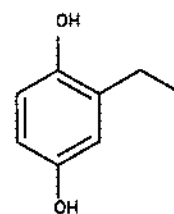
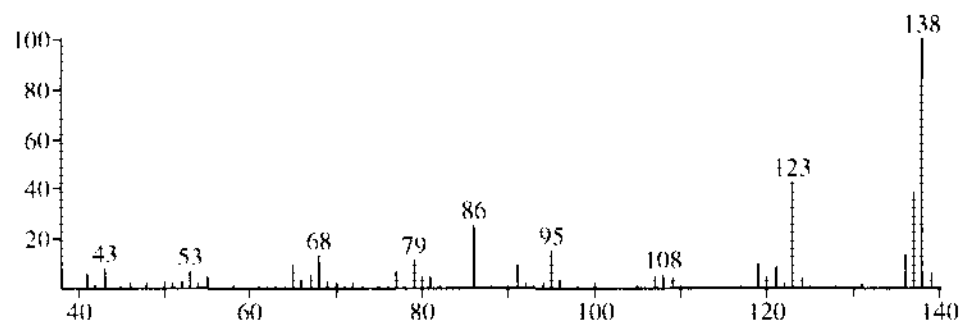
Source: Givaudan ex Jian Qin Cu. Kunming



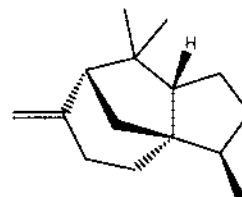
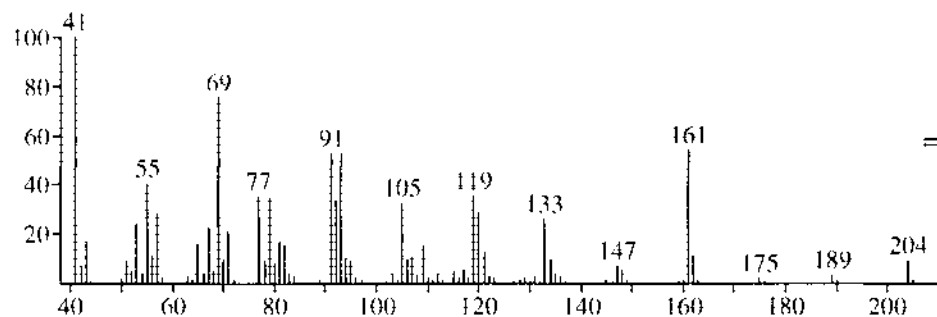
RT: 25.17 AI: 1413 KI: 1414 **Damascone <(E)-β->**
 CAS#: 23726-91-2 MF: C₁₃H₂₀O FW: 192 MSD LIB#: 554
 CN: 2-buten-1-one, 1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-, (2E)-
 Synonyms: none
 Source: Firmenich ex Jian-Qin Cu. Kunming



RT: 25.19 AI: 1413 KI: 1414 **Ethyl hydroquinone (impure)**
 CAS#: 2349-70-4 MF: C₈H₁₀O₂ FW: 138 MSD LIB#: 674
 CN: 1,4-benzenediol, 2-ethyl-
 Synonyms: none
 Source: K & K Chem. ex H. Hills



RT: 25.19 AI: 1413 KI: 1414 **Funebrene <β->**
 CAS#: 79120-98-2 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 409
 CN: 1H-3a,7-methanoazulene, octahydro-3,8,8-trimethyl-6-methylene-, (3R-(3α,3α,7α,8α))-
 Synonyms: 1,7-di-epi-β-cedrene
 Source: Fluka Chem.



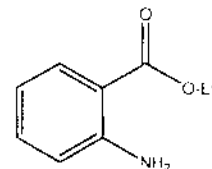
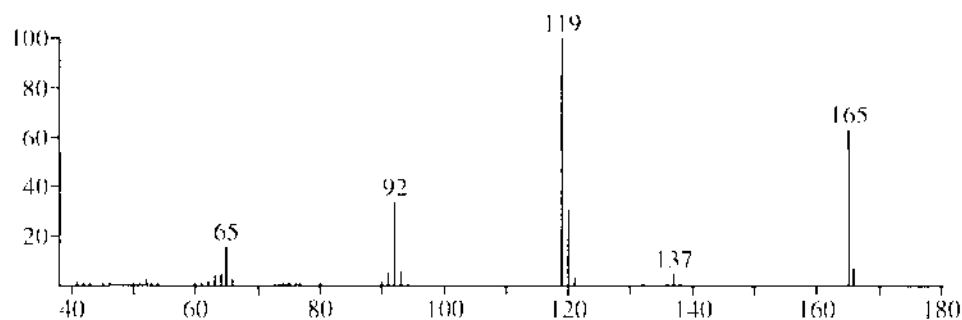
RT: 25.23 AI: 1414 KI: 1415 **Anthranilate <ethyl->**

CAS#: 87-25-2 MF: C₉H₁₁N O₂ FW: 165 MSD LIB#: 178

CN: benzoic acid, 2 amino, ethyl ether

Synonyms: ethyl o-aminobenzoate

Source: K & K ex H. Hills



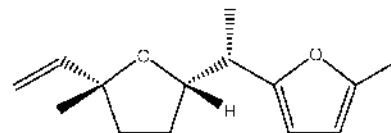
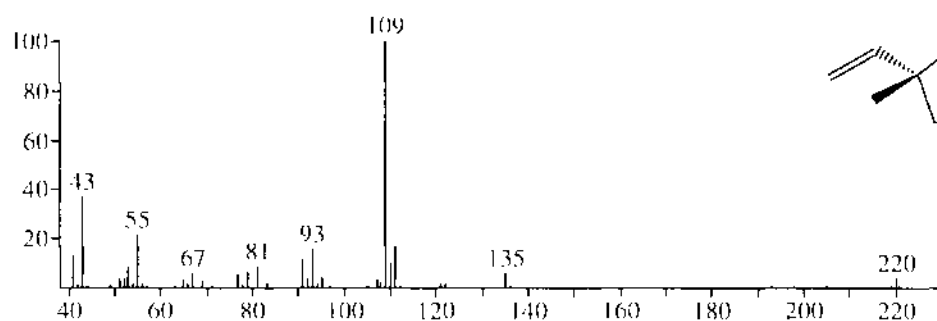
RT: 25.23 AI: 1414 KI: 1415 **Davanafuran <cis,threo->**

CAS#: 56586-07-3 MF: C₁₄H₂₀O₂ FW: 220 MSD LIB#: 197

CN: furan, 2-ethenyltetrahydro-2-methyl-5-[1-(5-methyl-2-furanyl)ethyl]-, [2 α ,5 α (S*)]-

Synonyms: none

Source: Armoise a davanone ex Guy Collin



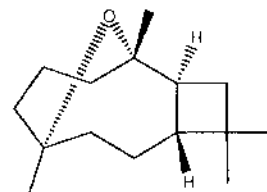
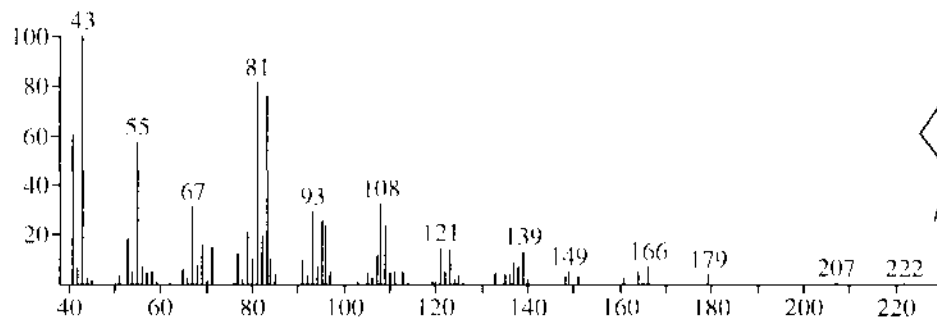
RT: 25.26 AI: 1415 KI: 1416 **Caryophyllane <4,8- α -epoxy->**

CAS#: 178737-41-2 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 381

CN: 12-oxatricyclo(6.3.1.0^{2,5})dodecane, 1,4,4,8-tetramethyl-, (1 α ,2 α ,5 β ,8 α)-

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl



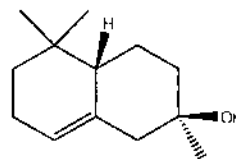
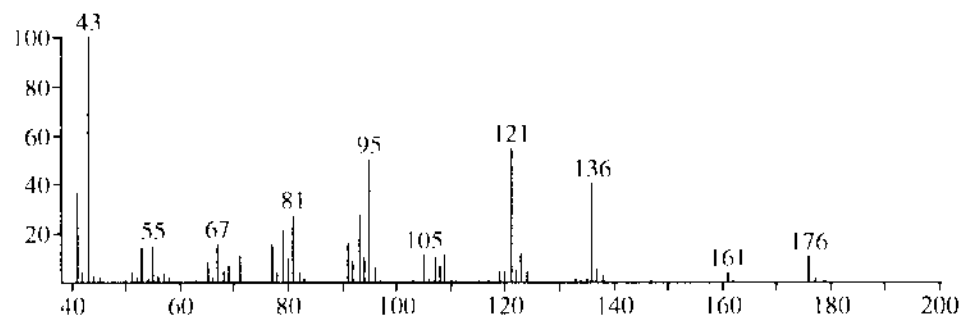
RT: 25.27 AI: 1415 KI: 1416 **Ambrinol <trans- α >**

CAS#: 77286-35-2 MF: C₁₃H₂₂O FW: 194 MSD LIB#: 116

CN: 2-naphthalenol, 1,2,3,4,4a,5,6,7-octahydro-2,5,5-trimethyl-, trans-

Synonyms: none

Source: Firmenich



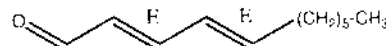
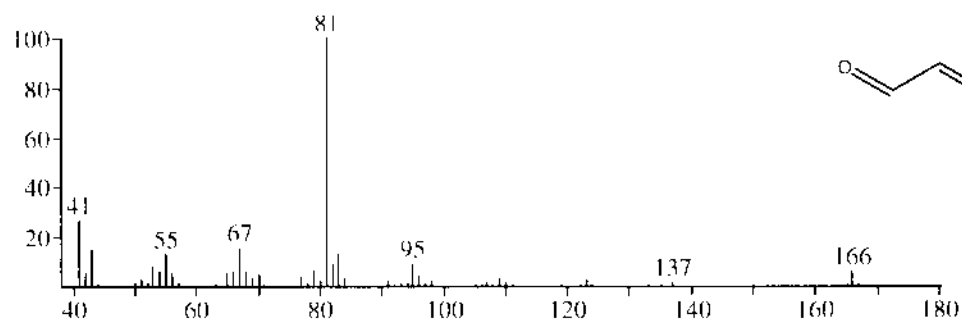
RT: 25.28 AI: 1415 KI: 1417 **Undecadienal <(2E,4E)->**

CAS#: 30361-29-6 MF: C₁₁H₁₈O FW: 166 MSD LIB#: 2033

CN: 2,4-undecadienal, (2E,4E)-

Synonyms: none

Source: Bedoukian Res.



RT: 25.31 AI: 1416 KI: 1417 **Santalene < α >**

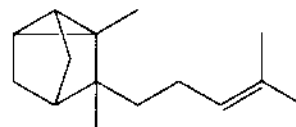
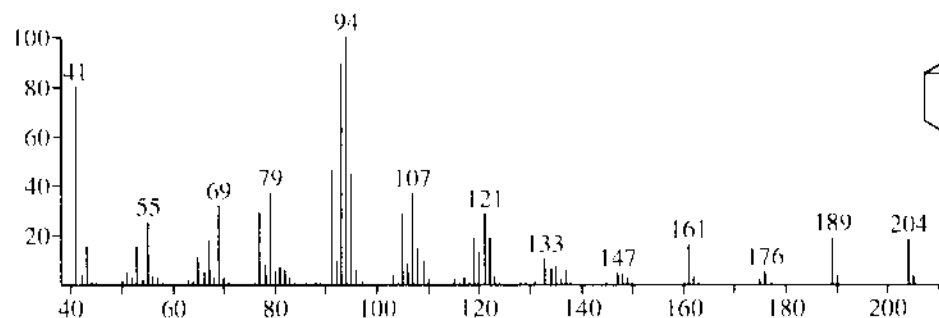
CAS#: 512-61-8 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1377

CN: tricyclo(2.2.1.0.2.6)heptane, 1,7-dimethyl-7-(4-methyl-3-pentenyl)-

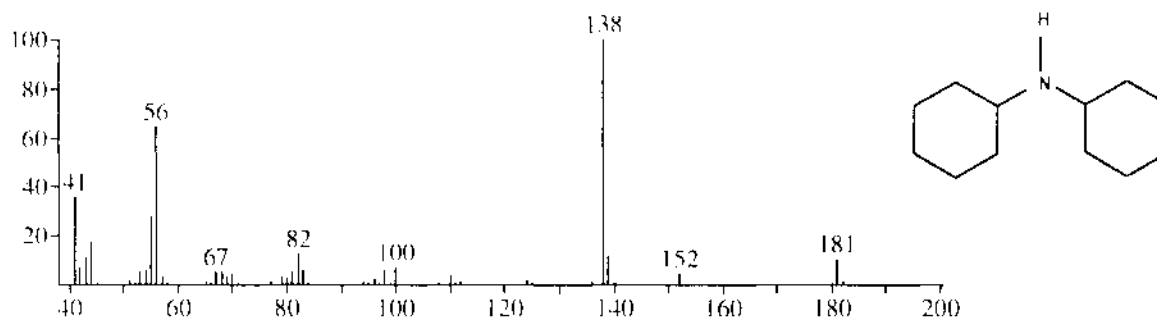
Synonyms: none

Source: Lavender oil ex Firmenich ex AF Thomas; 10.00% *Commiphora erythraea*,

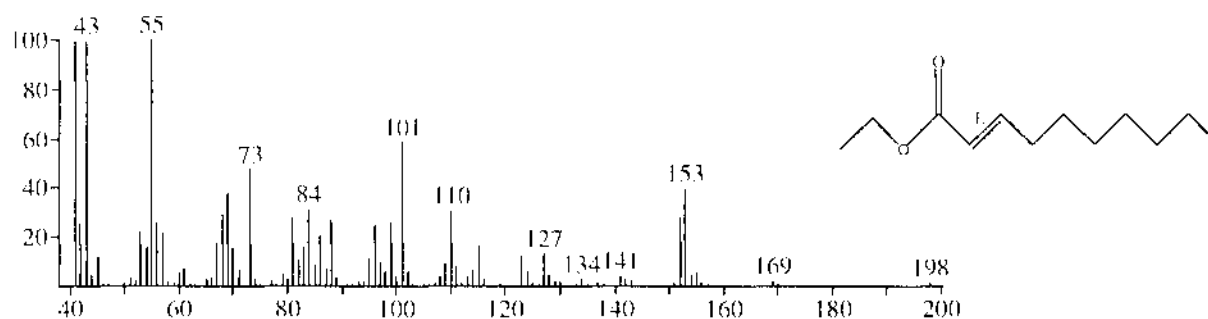
Phytochem. 21:677(1982); 6.87% *Daphne genkwa*; 6.00% *Cinnamomum camphora*



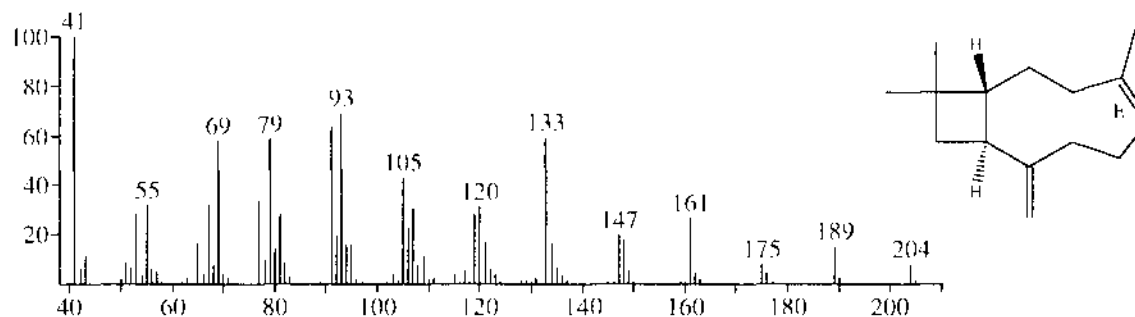
RT: 25.33 AI: 1417 KI: 1418 **Dicyclohexyl amine**
 CAS#: 101-83-7 MF: C₁₂H₂₃N FW: 181 MSD LIB#: 753
 CN: cyclohexanamine, N-cyclohexyl-
 Synonyms: aminodicyclohexane
 Source: Grob mixture for GC, Alltech Assoc.



RT: 25.33 AI: 1417 KI: 1418 **Ethyl-(2E)-deceanoate**
 CAS#: 7367-88-6 MF: C₁₂H₂₂O₂ FW: 198 MSD LIB#: 2183
 CN: 2-decenoic acid, ethyl ester, (2E)-
 Synonyms: ethyl trans-2-decenoate
 Source: Bedoukian Res.



RT: 25.36 AI: 1417 KI: 1419 **Caryophyllene <(E)->**
 CAS#: 87-44-5 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 830
 CN: trimethyl-8-methylenebicyclo(7.2.0)undec-4-ene <4.11,11->
 Synonyms: β -caryophyllene
 Source: *Hymenaea* oil ex Jean Langenbeim



RT: 25.42 AI: 1419 KI: 1420 **Cedrene <β>**

CAS#: 546-28-1 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 940

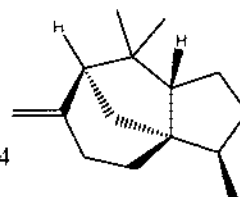
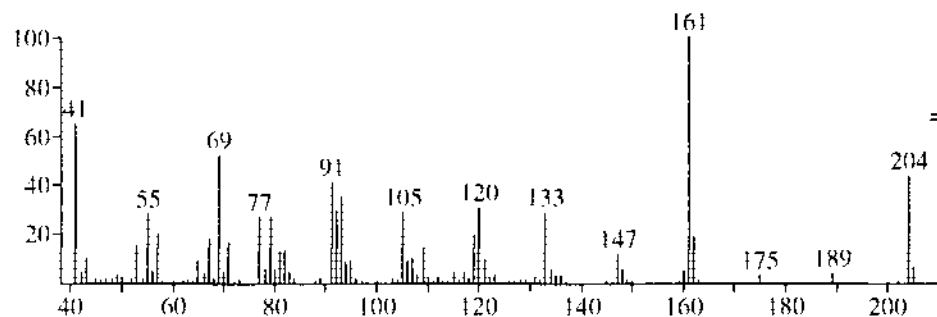
CN: 1H-3a,7-methanoazulene, octahydro-3,8,8-trimethyl-6-methylene-, (3R-(3α,3β,7β,8α))-

Synonyms: cedr-8(15)-ene

Source: *Juniperus recurva* Et Ac 1-FRACt ex J Oda, Ag. Biol. Chem. 41:201(1977);

6.75% *Juniperus virginiana*, Perf. Flav. 5:63(1980); 5.65% *Juniperus mexicana* (= *J. ashei*, author's note);

4.71% *Hemizygia welwitschii*



RT: 25.43 AI: 1419 KI: 1420 **Ylangene <β>**

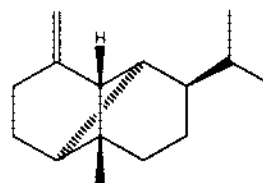
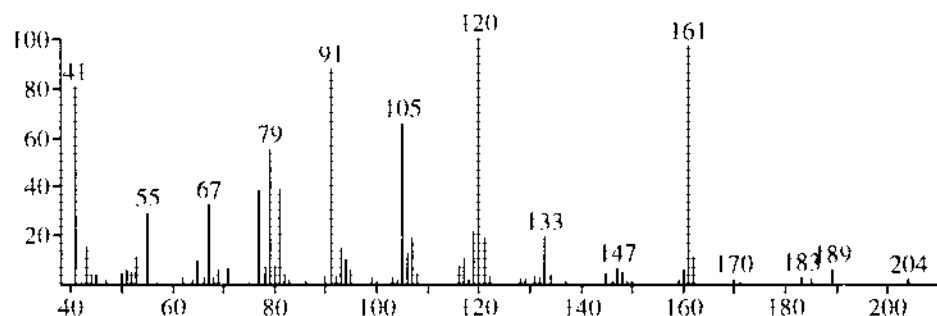
CAS#: 20479-06-5 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1318

CN: tricyclo(4.4.0.0^{2,7})decane, 1-methyl-3-methylene-8-(1-methylethyl)-, stereoisomer

Synonyms: copaene, trans-β-

Source: *Pinus edulis* resin ex Larry Cool; 1.02% *Dysoxylum richii* (leaf), FFJ 6:125(1991);

0.63% *Calendula officinalis*; 0.60% *Mentha piperita*



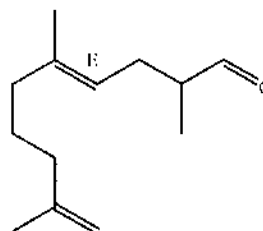
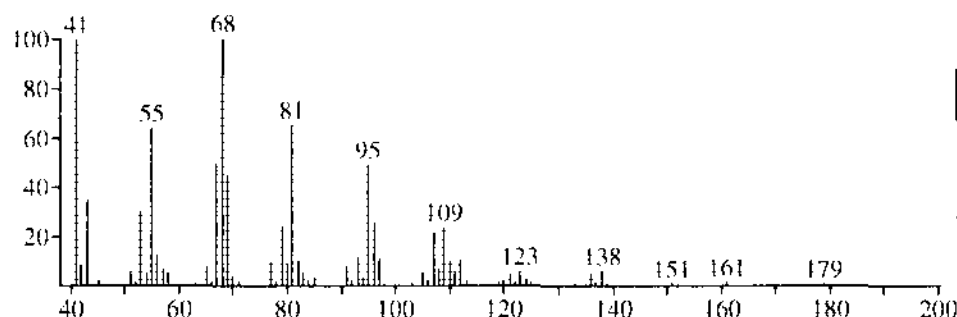
RT: 25.45 AI: 1419 KI: 1421 **Trimenal <(E)>**

CAS#: 32803-39-7 MF: C₁₃H₂₂O FW: 194 MSD LIB#: 1516

CN: 4,9-decadienal, 2,5,9-trimethyl-, (E)-

Synonyms: none

Source: Firmenich ex Jian-Qin Cu, Kunming



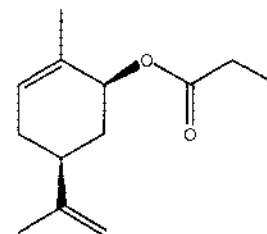
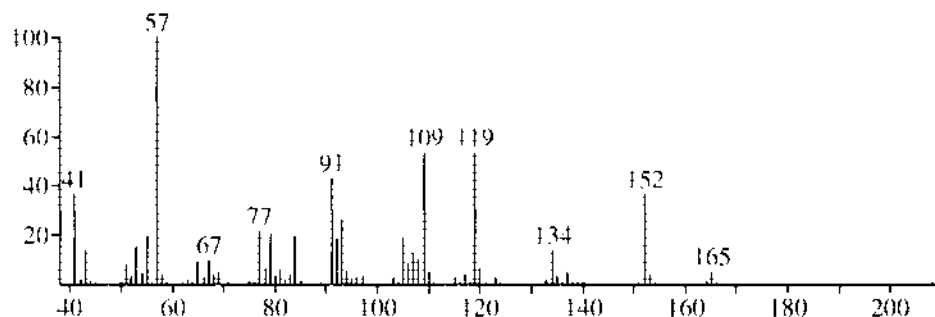
RT: 25.48 AI: 1420 KI: 1422 **Carvyl propanoate <cis->**

CAS#: 145032-50-4 MF: C₁₃ H₂₀ O₂ FW: 208 MSD LIB#: 378

CN: 2-cyclohexen-1-ol, 2-methyl-5-(1-methylethenyl)-, propanoate, cis-

Synonyms: none

Source: Nickstadt Chem. ex Art Tucker



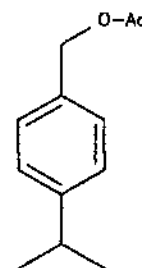
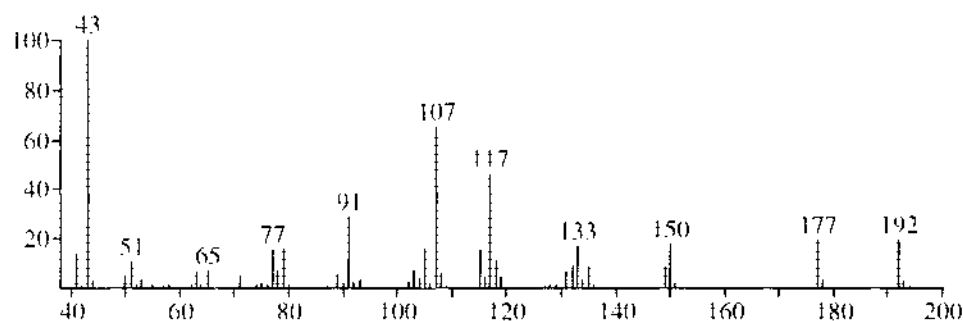
RT: 25.51 AI: 1421 KI: 1422 **Cymen-7-ol acetate <p->**

CAS#: 59230-57-8 MF: C₁₂ H₁₆ O₂ FW: 192 MSD LIB#: 545

CN: benzenemethanol, 4-(1-methylethyl)-, acetate

Synonyms: cuminyl acetate, cuminol acetate

Source: acetylation of Cymen-7-ol(6436)



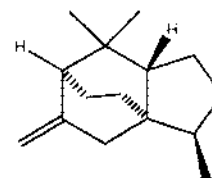
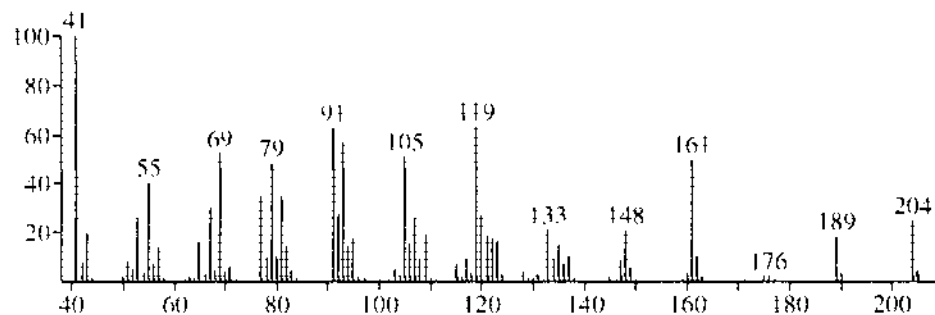
RT: 25.51 AI: 1421 KI: 1422 **Duprezianene <β->**

CAS#: 178443-10-2 MF: C₁₅ H₂₄ FW: 204 MSD LIB#: 961

CN: 3a,6-ethano-3aH-indene, octahydro-3,7,7-trimethyl-5-methylene-, (3R,3aR,6S,7aS)-

Synonyms: none

Source: *Juniperus thurifera* wood oil, Junicedrol fraction, A.F. Barrero, Spain



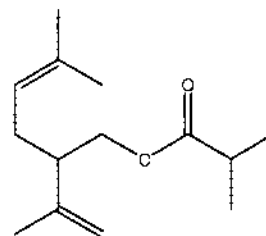
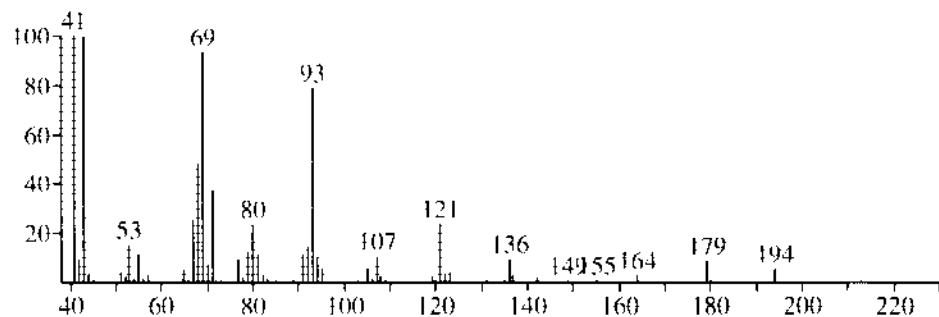
RT: 25.51 AI: 1421 KE: 1422 **Lavandulyl isobutanoate**

CAS#: 51117-20-5 MF: C₁₄H₂₄O₂ FW: 224 MSD LIB#: 1152

CN: propanoic acid, 2-methyl-, (2R)-5-methyl-2-(1-methylethenyl)-4-hexenyl ester

Synonyms: lavandulyl isobutyrate

Source: *Nidorella resedifolia* oil ex P. Weyerstahl



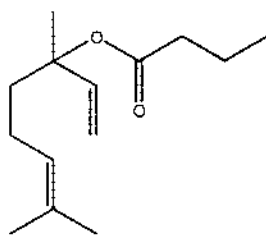
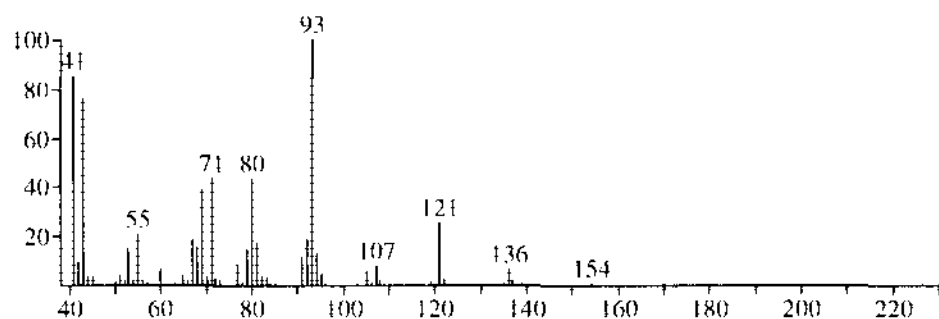
RT: 25.53 AI: 1421 KE: 1423 **Linalool butanoate**

CAS#: 78-36-4 MF: C₁₄H₂₄O₂ FW: 224 MSD LIB#: 1017

CN: butanoic acid, 1-ethenyl-1,5-dimethyl-4-hexenyl ester

Synonyms: linalool butyrate; linalyl butyrate

Source: Aldrich Chem.



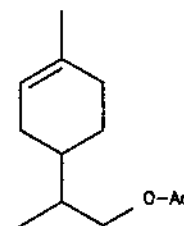
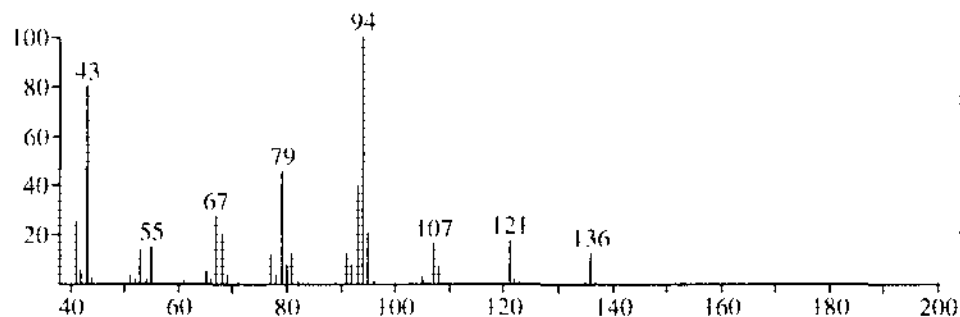
RT: 25.53 AI: 1421 KE: 1423 **Menth-1-en-9-ol acetate <p>**

CAS#: 28839-13-6 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 1062

CN: 3-cyclohexene-1-ethanol, β,4-dimethyl-, acetate

Synonyms: none

Source: acetylation of menth-1-en-9-ol (6429)



RT: 25.54 AI: 1422 KI: 1423 **Carvone hydrate**

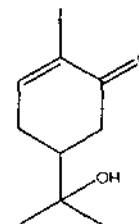
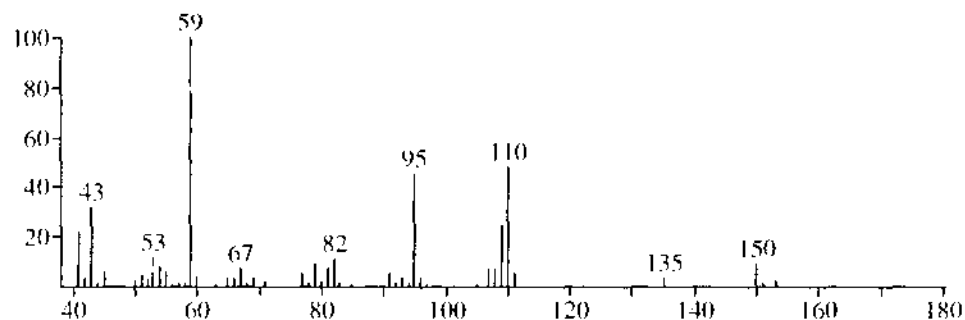
CAS#: 7712-46-1 MF: C₁₀H₁₆O₂ FW: 168 MSD LIB#: 374

CN: 2-cyclohexen-1-one, 5-(1-hydroxy-1-methylethyl)-2-methyl-

Synonyms: p-mentha-6,8-dien-2-one; hydroxycarvotanacetone, 8-;

menth-6-en-2-one, 8-hydroxy-p-

Source: ref. cpd. ex P. Weyerstahl



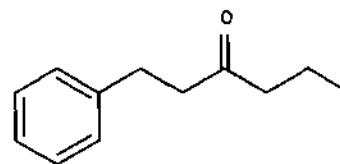
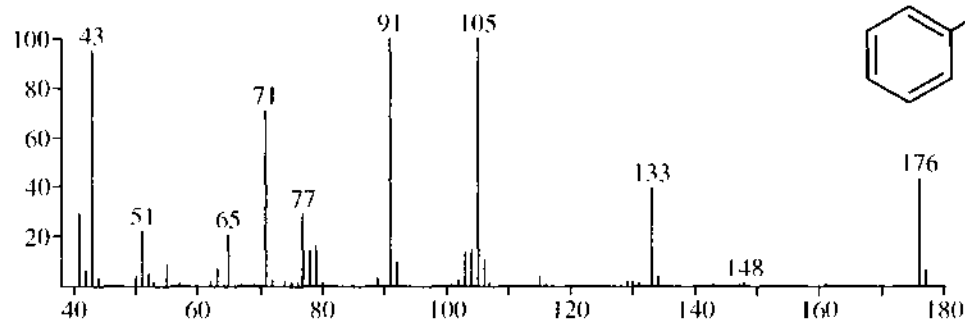
RT: 25.58 AI: 1423 KI: 1424 **Phenyl hexan-3-one <1->**

CAS#: 29898-25-7 MF: C₁₂H₁₆O FW: 176 MSD LIB#: 121

CN: 3-hexanone, 1-phenyl-

Synonyms: none

Source: *Amomyrtus meli* oil ex P. Weyerstahl



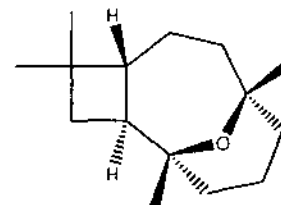
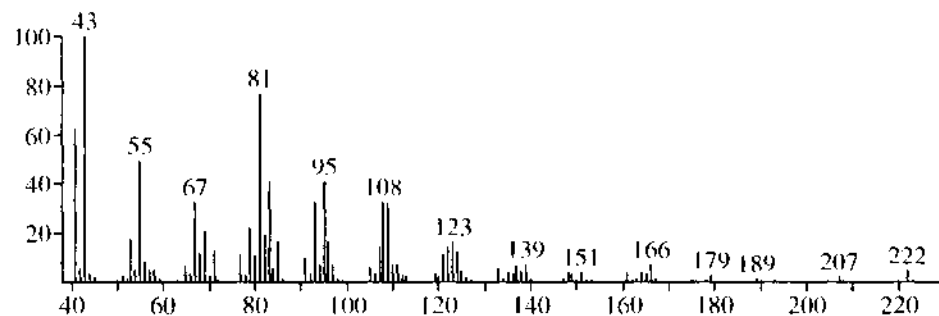
RT: 25.59 AI: 1423 KI: 1424 **Caryophyllane <4,8-β-epoxy->**

CAS#: 178737-42-3 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 382

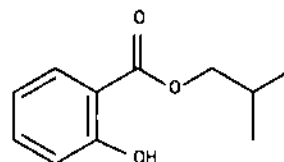
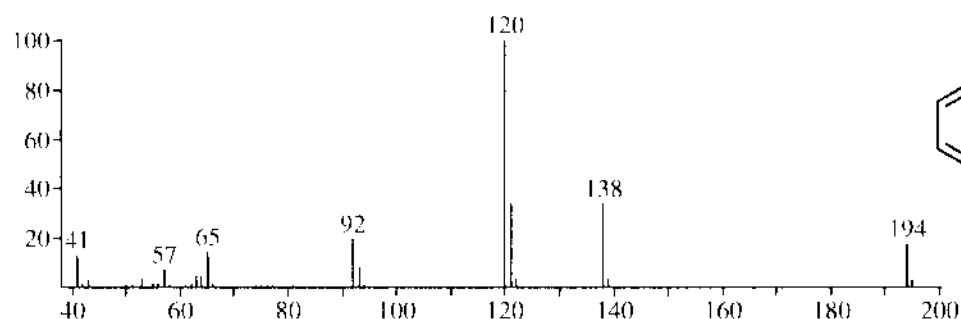
CN: 12-oxatricyclo(6.3.1.0^{2,5})dodecane, 1,4,4,8-tetramethyl-, (1α,2β,5α,8α)-

Synonyms: none

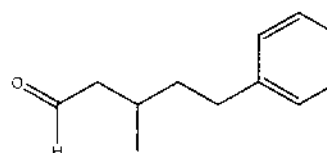
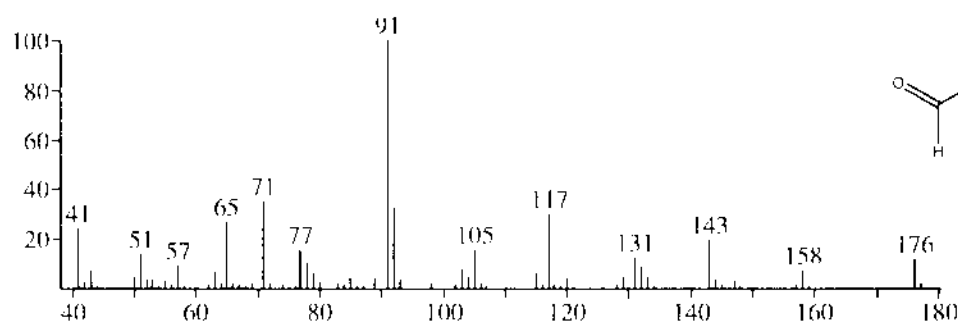
Source: ref. cpd. ex Peter Weyerstahl



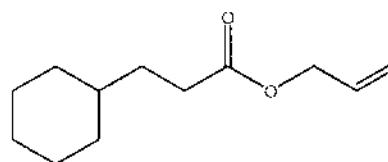
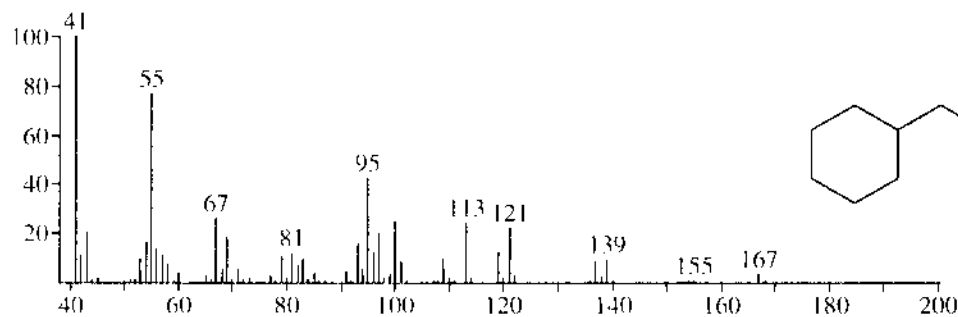
RT: 25.59 AI: 1423 KI: 1424 **Isobutyl salicylate**
 CAS#: 87-19-4 MF: C₁₁H₁₄O₃ FW: 194 MSD LIB#: 859
 CN: benzoic acid, 2-hydroxy-, 2-methylpropyl ester
 Synonyms: isobutyl o-hydroxybenzoate
 Source: K & K Chem. ex H. Hills



RT: 25.60 AI: 1423 KI: 1425 **Mefranal**
 CAS#: 55066-49-4 MF: C₁₂H₁₆O FW: 176 MSD LIB#: 1059
 CN: benzenepentanal, β-methyl-
 Synonyms: 3-methyl-5-phenylpentanal
 Source: Quest Intl. ex Art Tucker



RT: 25.61 AI: 1423 KI: 1425 **Allyl cyclohexyl propanoate**
 CAS#: 2705-87-5 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 108
 CN: cyclohexanepropanoic acid, 2-propenyl ester
 Synonyms: none
 Source: Firmenich ex Jian-Qin Cu, Kunming



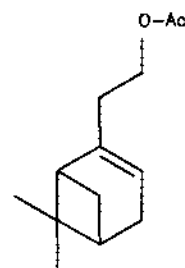
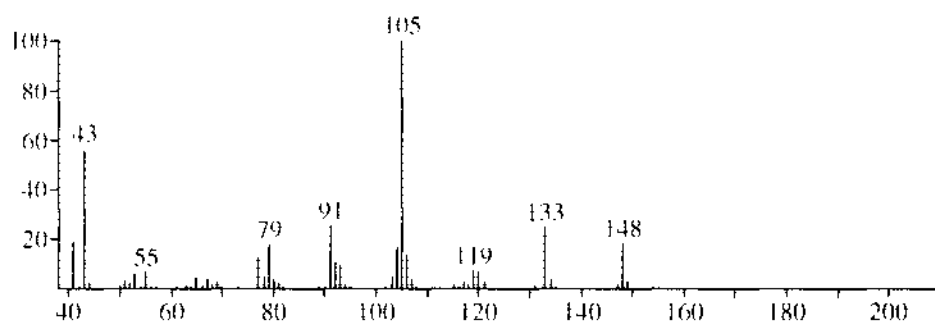
RT: 25.65 AE: 1424 KI: 1426 **Nopyl acetate**

CAS#: 128-51-8 MF: C₁₃H₂₀O₂ FW: 208 MSD LIB#: 1174

CN: bicyclo[3.1.1]hept-2-ene-2-ethanol, 6,6-dimethyl-, acetate

Synonyms: citrovial

Source: SCM Chems. ex H. Hills



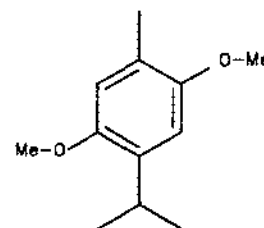
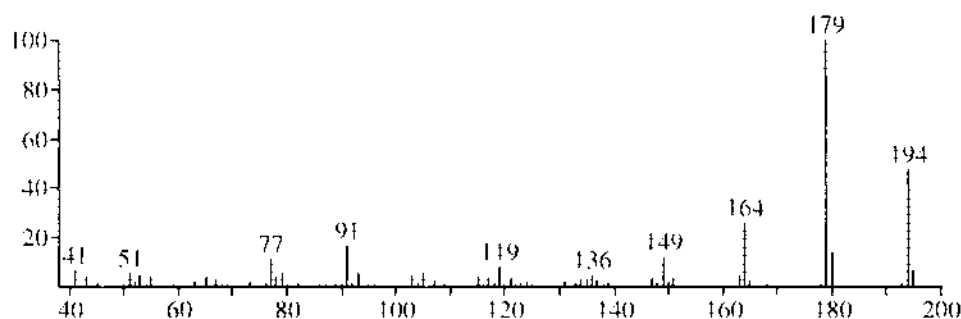
RT: 25.66 AE: 1424 KI: 1426 **Cymene <2,5-dimethoxy-p->**

CAS#: 14753-08-3 MF: C₁₂H₁₈O₂ FW: 194 MSD LIB#: 975

CN: benzene, 1,4-dimethoxy-2-methyl-5-(1-methylethyl)-

Synonyms: none

Source: *Laggera alata* oil ex JJ Scheffer



RT: 25.66 AE: 1424 KI: 1426 **Methyl undecanoate**

CAS#: 1731-86-8 MF: C₁₂H₂₄O₂ FW: 200 MSD LIB#: 754

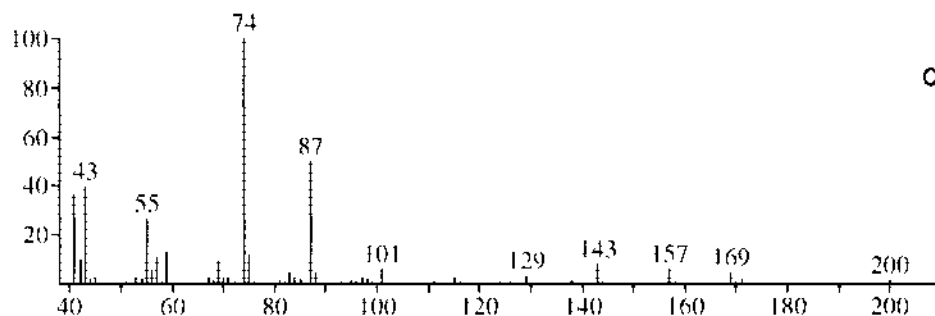
CN: undecanoic acid, methyl ester

Synonyms: none

Source: Grob mixture for GC ex Alltech Assoc.; 0.63% *Humulus lupulus*,

p. 59, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong(1993);

0.02% *Ribes nigrum*



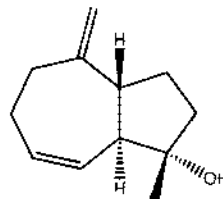
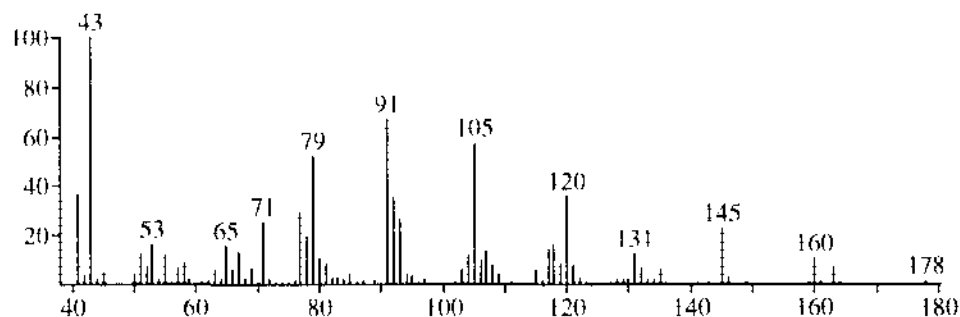
RT: 25.79 AI: 1428 KI: 1429 **Dictamnol**

CAS#: 180682-30-8 MF: C₁₂H₁₈O FW: 178 MSD LIB#: 145

CN: 1-azulenol, 1,2,3,3a,4,5,6,8a-octahydro-1-methyl-4-methylene-, (1R,3aS,8aR)

Synonyms: none

Source: *Amyris diatrypa* leaves ex Tom Zanoni, Dom. Rep.



RT: 25.81 AI: 1428 KI: 1430 **Ionone <(E)-α->**

CAS#: 127-41-3 MF: C₁₃H₂₀O FW: 192 MSD LIB#: 844

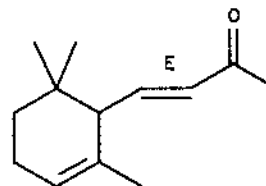
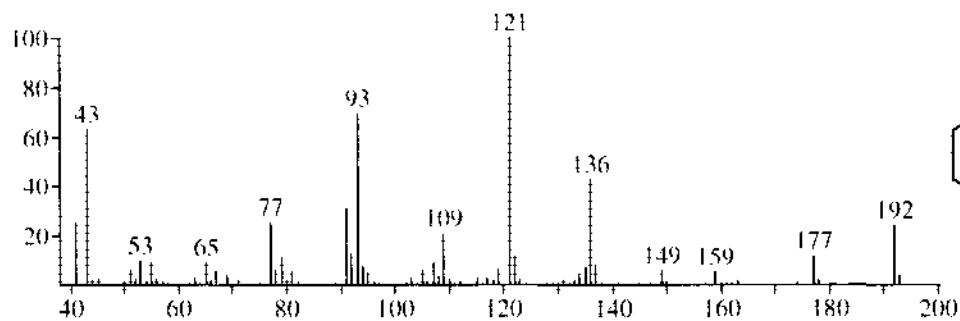
CN: 3-buten-2-one, 4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-, (E)-

Synonyms: trans-α-ionone; α-cyclotrylideneacetone

Source: Artificial blackberry flavor, Lorann Oils: 6.50% *Osmanthus fragrans*,

Proc 11th Intl. Cong. of Ess. Oils, New Delhi, India 4:27(1989): 5.00% *Saussurea lappa*;

3.30% *Viola odorata*



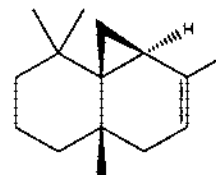
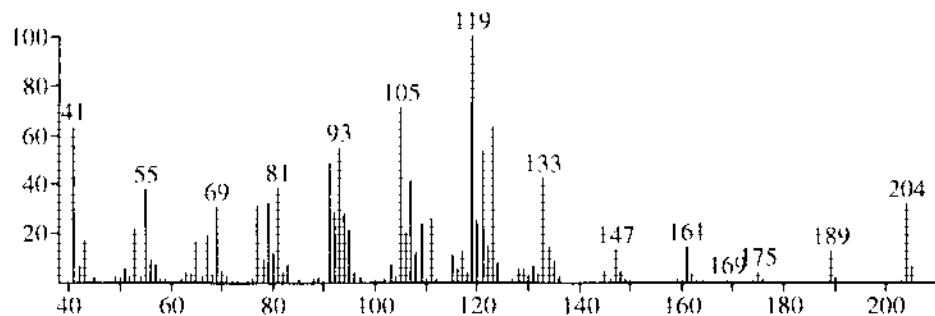
RT: 25.86 AI: 1429 KI: 1431 **Thujopsene <cis->**

CAS#: 470-40-6 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 941

CN: octahydro-2,4a,8,8-tetramethylcyclopropano(d)naphthalene <1,1a,4,4a,5,6,7,8->, (1aS-(1α,4αβ,8aR*))-

Synonyms: widdrene; sesquichamene

Source: *Juniperus recurva* wood oil ex J Oda, Japan



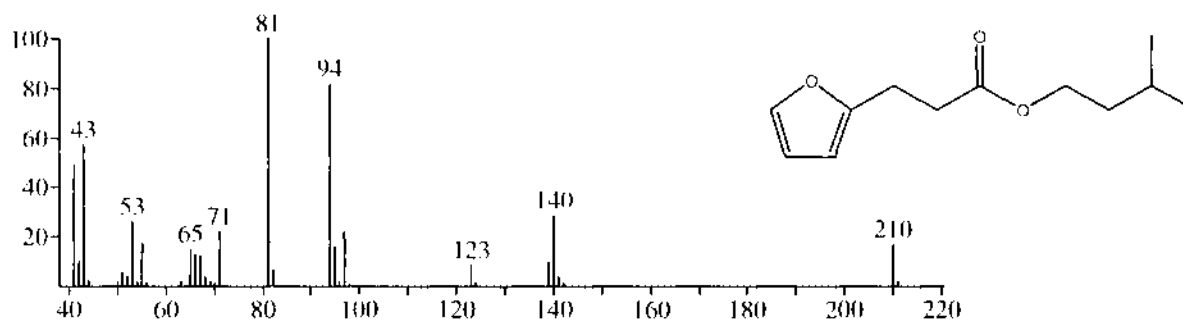
RT: 25.88 AE: 1430 KE: 1431 **Isoamyl 3-(2-furan)propionate**

CAS#: 7779-67-1 MF: C₁₂H₁₈O₃ FW: 210 MSD LIB#: 1601

CN: 2-furanpropanoic acid, 3-methylbutyl ester

Synonyms: isoamyl furylpropionate

Source: Aldrich Chem.



RT: 25.90 AE: 1430 KE: 1432 **Copaene<β>**

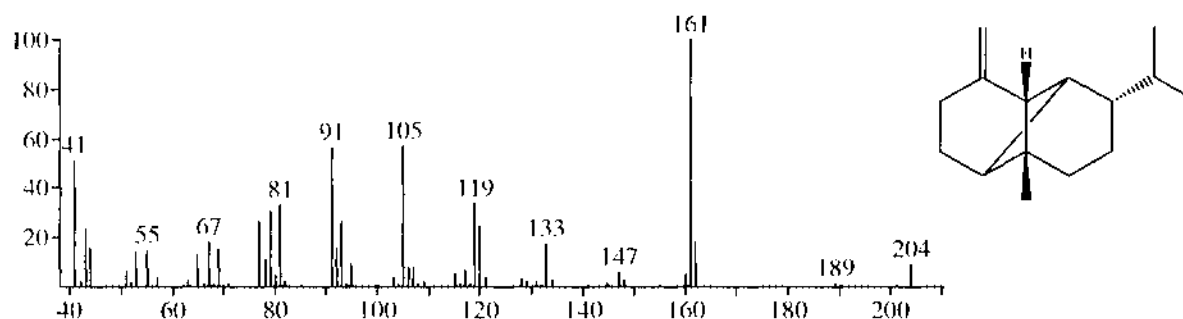
CAS#: 18252-44-3 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1319

CN: tricyclo(4.4.0.0^{2,7})decane, 1-methyl-3-methylene-8-(1-methylethyl)-, stereoisomer

Synonyms: copaene, cis-β-

Source: *Ylang ylang* oil ex Larry Cook; 3.50% *Bidens pilosa*, FFJ 10:97(1995);

3.42% *Dracaena reflexa*; 2.40% *Mentha piperita*



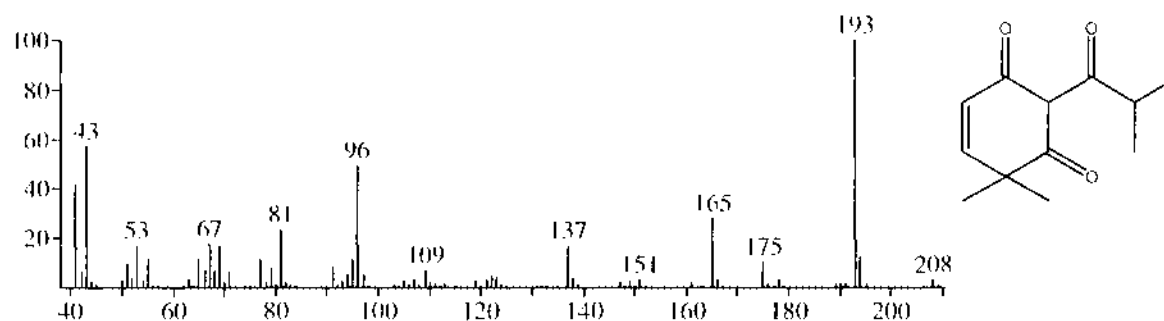
RT: 25.94 AE: 1431 KE: 1433 **Xanthostemone**

CAS#: 22601-85-0 MF: C₁₂H₁₆O₃ FW: 208 MSD LIB#: 221

CN: 4-cyclohexene-1,3-dione, 6,6-dimethyl-2-(2-methyl-1-oxopropyl)-

Synonyms: none

Source: *Xanthostemon oppositifolus* oil ex JJ Brophy



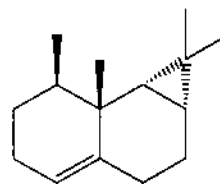
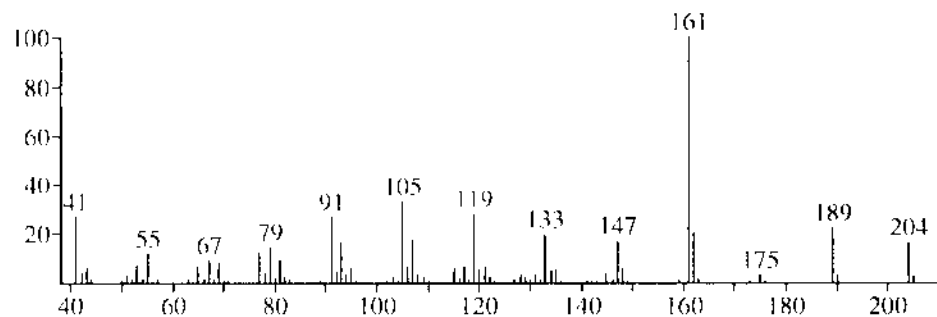
RT: 25.95 AI: 1431 KI: 1433 **Gurjunene <β>**

CAS#: 17334-55-3 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 763

CN: 1H-cyclopropa(a)naphthalene, 1a,2,3,5,6,7,7a,7b octahydro-1,1,7,7a-tetramethyl-, (1aR-(1aα,7a,7aα,7bα))-

Synonyms: δ-1(10)-aristolene; calarene

Source: Roure Bertrand ex H. Hills: 65.00% *Satureja montana*, JEOR 3:147(1991); 6.74% *Acorus calamus*; 4.44% *Myrica cerifera* (leaf)



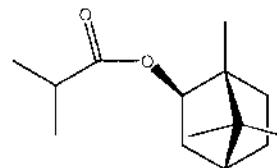
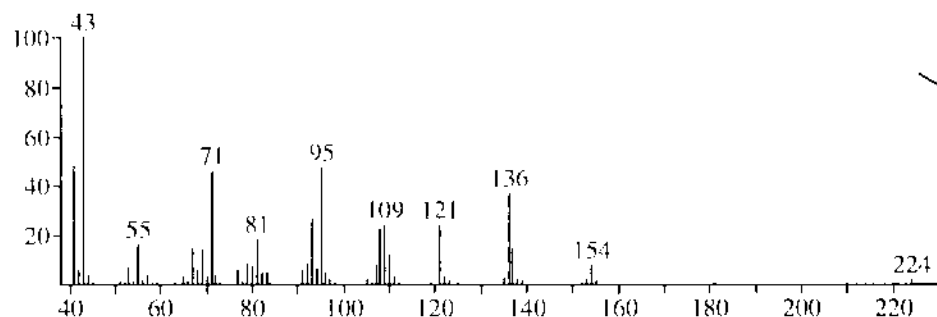
RT: 25.95 AI: 1431 KI: 1433 **Isobornyl isobutanoate**

CAS#: 107910-88-3 MF: C₁₄H₂₄O₂ FW: 224 MSD LIB#: 1444

CN: propanoic acid, 2-methyl-, 1,7,7-trimethylbicyclo(2.2.1)hept-2-yl ester, (1R-exo)-

Synonyms: isoborneol isobutyrate

Source: *Strobilanthes auriculatus* oil ex P. Weyerstahl



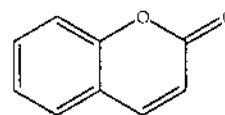
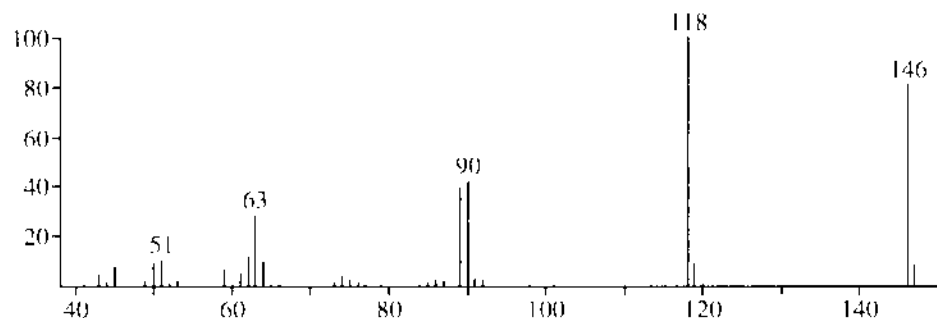
RT: 25.97 AI: 1432 KI: 1434 **Coumarin**

CAS#: 91-64-5 MF: C₉H₆O₂ FW: 146 MSD LIB#: 473

CN: 2H-1-benzopyran-2-one

Synonyms: 1,2-benzopyrone; benzo-α-pyrone; rattex; tonka bean camphor

Source: Pfaltz & Bauer ex Art Tucker



RT: 25.99 AI: 1432 KI: 1434 **Bergamotene < α -trans->**

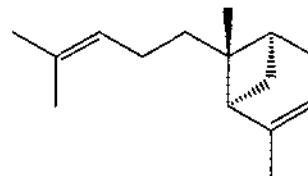
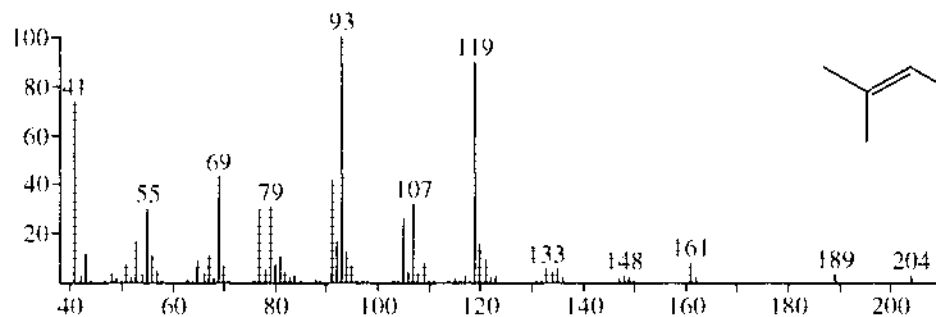
CAS#: 13474-59-4 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 993

CN: bicyclo(3.1.1)hept-2-ene, 2,6-dimethyl-6-(4-methyl-3-pentenyl)-, (1S-(1 α ,5 α ,6 α))-

Synonyms: none

Source: Lemon oil, Lorann Inc.; Lodgepole Pine; 10.50% *Ocimum basilicum*, Acta Pharm.

Fennica 96:101(1987); 10.00% *Commiphora erythraea*; 8.80% *Copaifera reticulata*



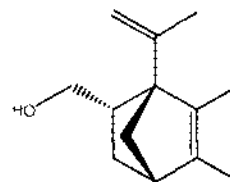
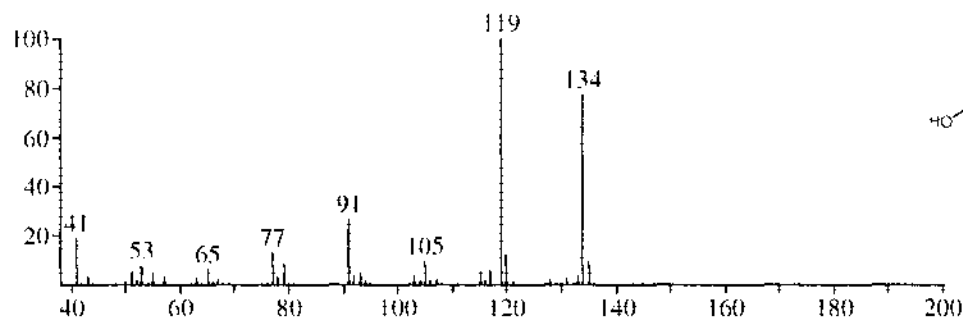
RT: 26.00 AI: 1433 KI: 1434 **Arbozol <endo->**

CAS#: 73127-38-5 MF: C₁₃H₂₀O FW: 192 MSD LIB#: 191

CN: bicyclo(2.2.1)hept-5-ene-2-methanol, 5,6-dimethyl-1-(1-methylethenyl)-, endo-

Synonyms: none

Source: Bedoukian Res. ex Art Tucker



RT: 26.03 AI: 1433 KI: 1435 **Isoamyl benzoate**

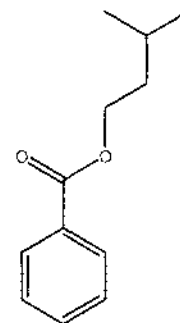
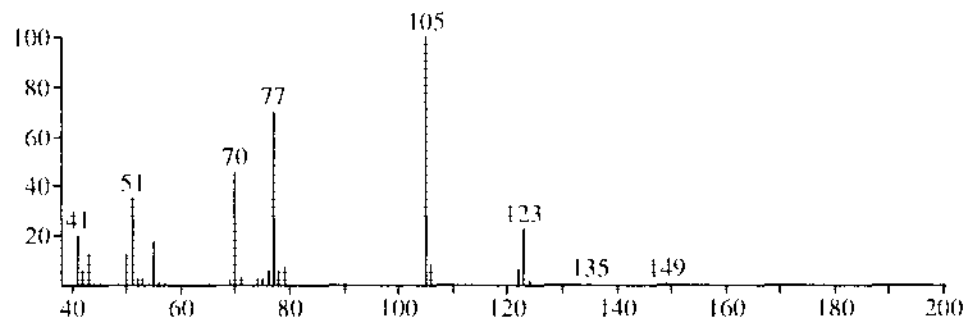
CAS#: 94-46-2 MF: C₁₂H₁₆O₂ FW: 192 MSD LIB#: 1600

CN: 1-butanol, 3-methyl-, benzoate

Synonyms: isopentyl benzoate

Source: Aldrich Chem.; 0.40% *Pistacia lentiscus* (leaf), FFJ, 6:229(1991);

0.10% *Narcissus tazetta* (absolute); 0.10% *Narcissus poeticus* (absolute)



RT: 26.06 AI: 1434 KI: 1436 **Neryl acetone**

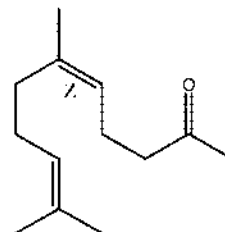
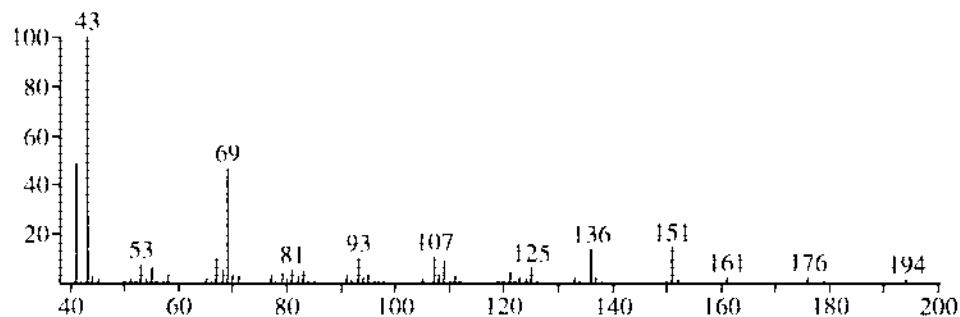
CAS#: 3879-26-3 MF: C₁₃H₂₂O FW: 194 MSD LIB#: 733

CN: 5,9-undecadien-2-one, 6,10-dimethyl-, (Z)-

Synonyms: cis-geranylacetone

Source: ref. cpd. ex H. Hills: 1.10% *Scleria striatinux* (rhizome), JEOR 8:59(1996);

0.56% *Sideritis amasiaca*; 0.18% *Origanum rotundifolium*



RT: 26.08 AI: 1434 KI: 1436 **Elemene <γ>**

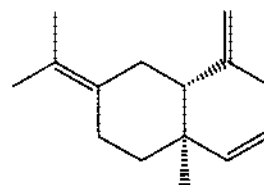
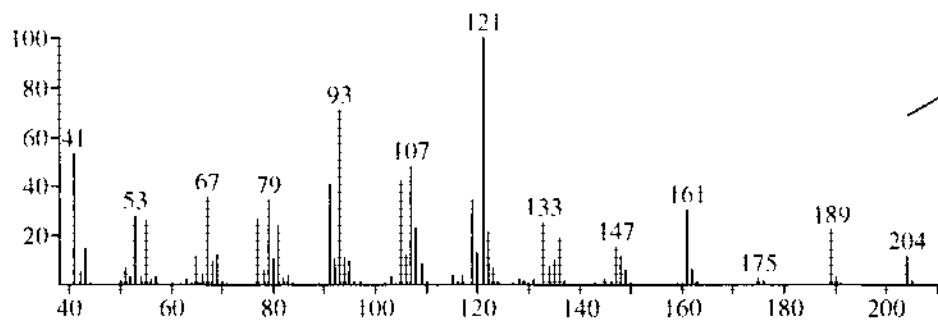
CAS#: 29873-99-2 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 742

CN: cyclohexane, 1-ethenyl-1-methyl-2-(1-methylethenyl)-4-(1-methylethylidene)-, (1R-trans)-

Synonyms: none

Source: Marjoram oil, distilled from Schilling leaves: 13.10% *Aristolochia gigantea*.

JEOR 3:403(1991); 11.70% *Stevia rebaudiana*; 10.90% *Vanillosmopsis arborea* (leaf)



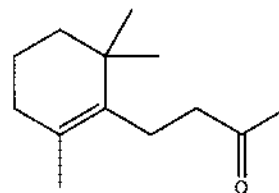
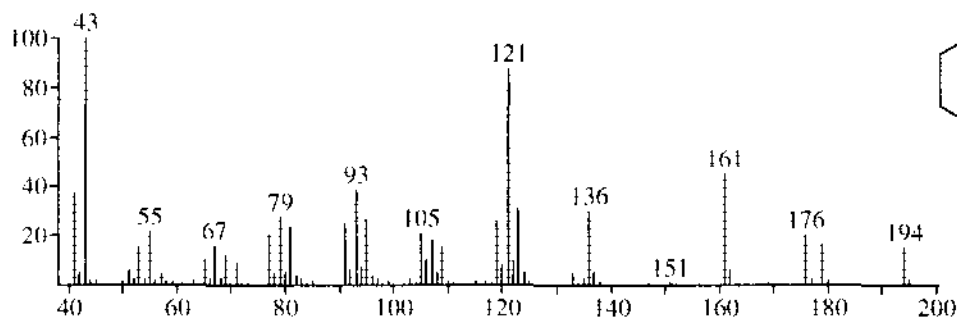
RT: 26.08 AI: 1434 KI: 1436 **Ionone <dihydro-β>**

CAS#: 17283-81-7 MF: C₁₃H₂₂O FW: 194 MSD LIB#: 1885

CN: 2-butanone, 4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-

Synonyms: 7,8-dihydro-ionone, α, β-dihydro-ionone

Source: *Juniperus chinensis* wood sesquiterpenes ex Larry Cool



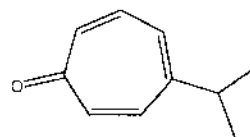
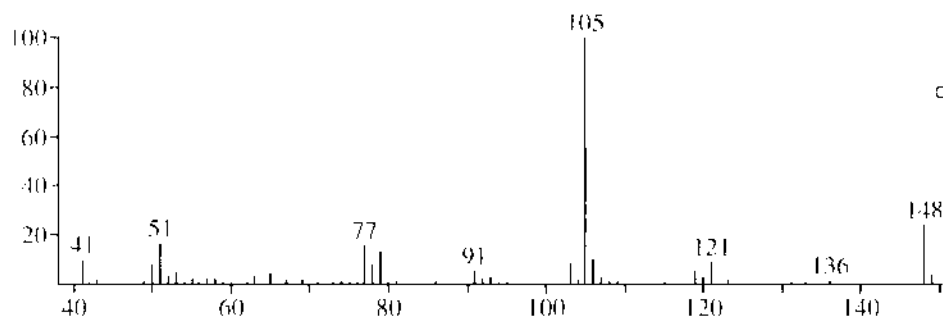
RT: 26.12 AI: 1435 KI: 1437 **Nezukone**

CAS#: 13656-81-0 ME: C₁₀ H₁₂ O FW: 148 MSD LIB#: 1851

CN: 2,4,6-cycloheptatrien-1-one, 4-(1-methylethyl)-

Synonyms: isopropyltropone, 4-

Source: *Thuja plicata* wood oil, Seattle Lib. Co., RP Adams #10002



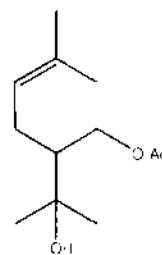
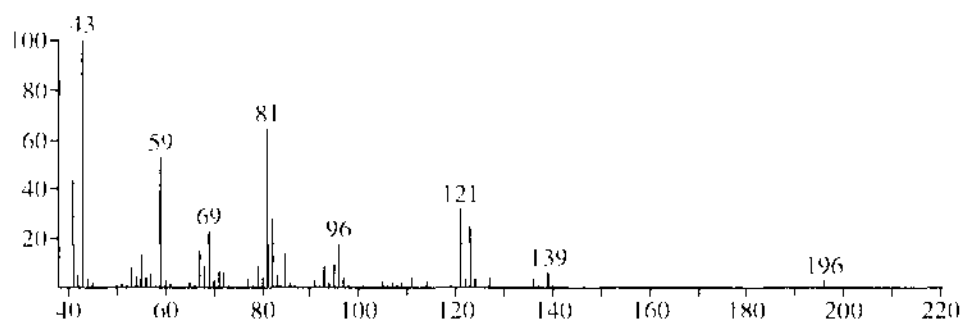
RT: 26.15 AI: 1436 KI: 1438 **Lavandulyl acetate <hydroxydihydro->**

CAS#: 69343-72-2 ME: C₁₂ H₂₂ O₃ FW: 214 MSD LIB#: 986

CN: 1,3-butanediol, 3-methyl-2-(3-methyl-2-butenyl)-, 1-acetate

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl



RT: 26.16 AI: 1436 KI: 1438 **Humulene <β->**

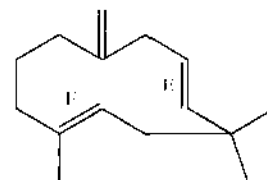
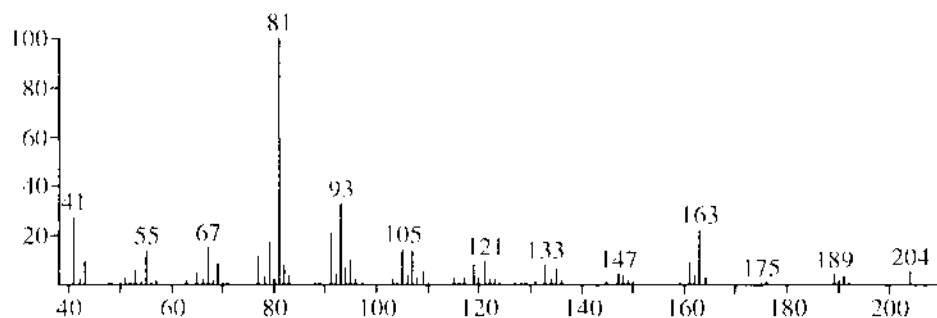
CAS#: 116-04-1 ME: C₁₅ H₂₄ FW: 204 MSD LIB#: 469

CN: 1,5-cycloundecadiene, 1,4,4-trimethyl-8-methylene-, (E,E)-

Synonyms: none

Source: *Copaiba* oil, Natl. Geog. Expedition, RP Adams #5499; 1.10% *Minthostachys spicata*.

FEJ 10:43(1995); 0.10% *Pimenta dioica*; 0.02% *Aristolochia impudica*



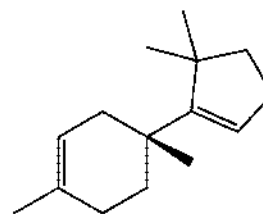
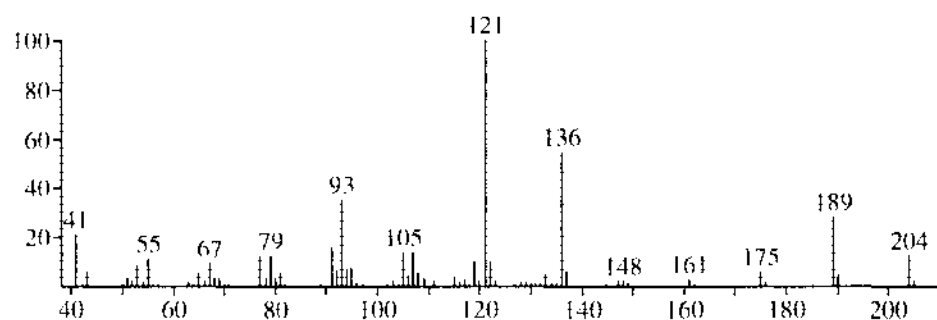
RT: 26.16 AI: 1436 KE: 1438 **Isobazzanene**

CAS#: 88661-59-0 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1868

CN: cyclohexene, 4-(5,5-dimethyl-1-cyclopenten-1-yl)-1,4-dimethyl-, (4R)-

Synonyms: none

Source: *Bazzania trilobata* oil ex. W. Koenig



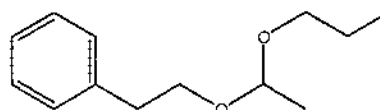
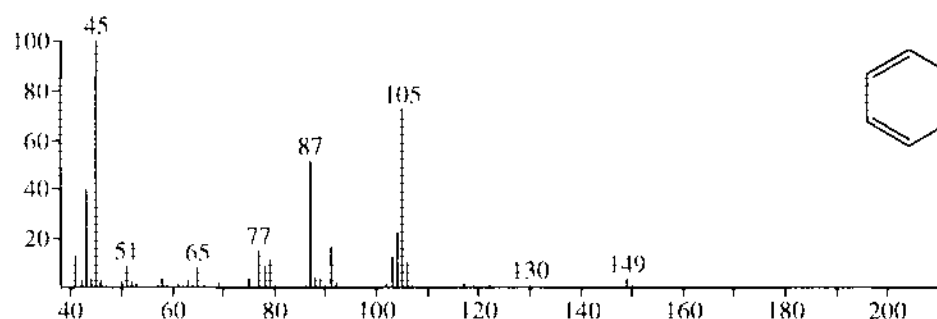
RT: 26.19 AI: 1437 KE: 1439 **Hyacinth Body #3**

CAS#: 7493-57-4 MF: C₁₃H₂₀O₂ FW: 208 MSD LIB#: 822

CN: benzene,(2-(1-propoxyethoxy)ethyl)-

Synonyms: acetaldehyde, phenethyl propyl acetal

Source: H₂O ex. Art Tucker



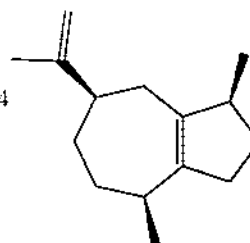
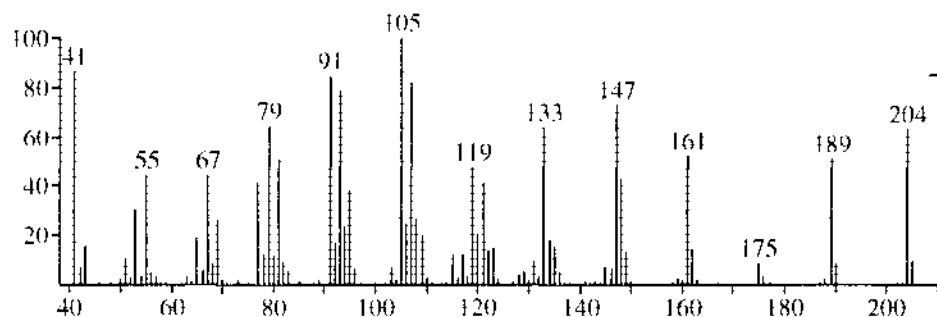
RT: 26.20 AI: 1437 KE: 1439 **Guaiene <α>**

CAS#: 3691-12-1 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 831

CN: azulene, 1,2,3,4,5,6,7,8-octahydro-1,4-dimethyl-7-(1-methylethenyl)-, (1S-(1α,4α,7α))-

Synonyms: guaia-1(5),11-diene

Source: *Hymenaea* oil ex Jean Langenheim



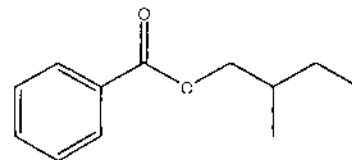
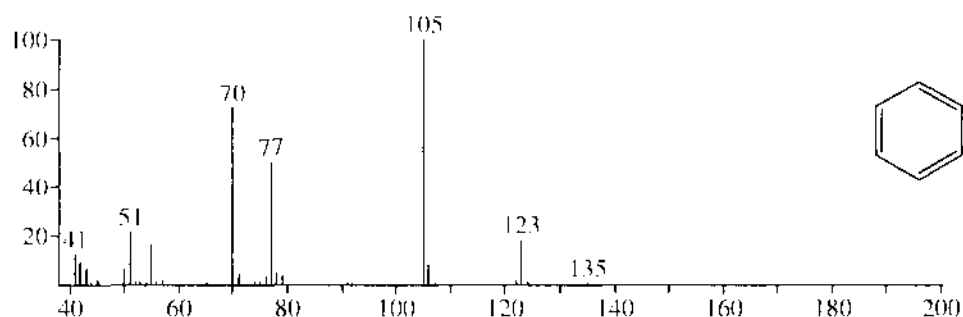
RT: 26.24 AI: 1438 KI: 1440 **Methyl butyl benzoate <2->**

CAS#: 52513-03-8 MF: C₁₂H₁₆O₂ FW: 192 MSD LIB#: 278

CN: 1-butanol, 2-methyl-, benzoate

Synonyms: none

Source: ref. cpd. ex H. DePooter



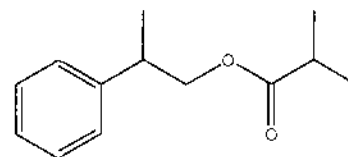
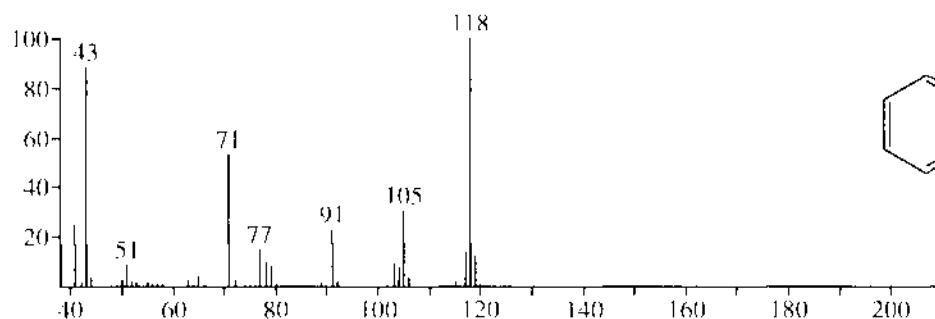
RT: 26.24 AI: 1438 KI: 1440 **Phenyl propyl isobutanoate <2->**

CAS#: 65813-53-8 MF: C₁₃H₁₈O₂ FW: 206 MSD LIB#: 1283

CN: propanoic acid, 2-methyl-, 2-phenylpropyl ester

Synonyms: 2-phenylpropyl isobutyrate

Source: Aldrich Chem. ex Art Tucker



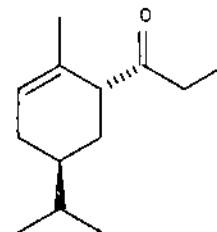
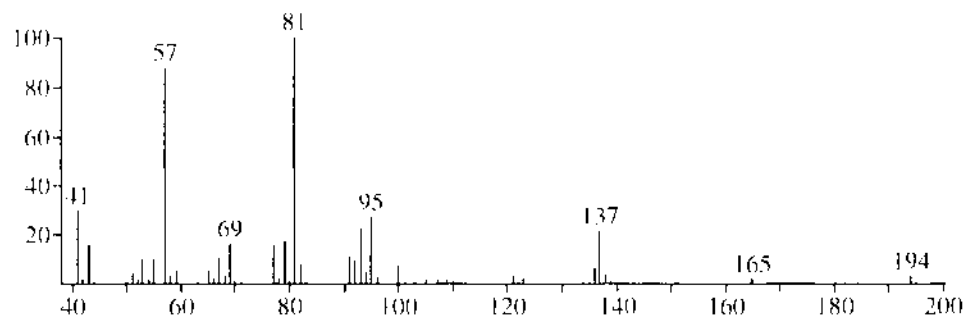
RT: 26.25 AI: 1438 KI: 1440 **Nerone <trans->**

CAS#: 41766-71-6 MF: C₁₃H₂₂O FW: 194 MSD LIB#: 1145

CN: 1-propanone, 1-(2-methyl-5-(1-methylethyl)-2-cyclohexen-1-yl)-, trans-

Synonyms: none

Source: Givaudan ex Jian-Qin Cu, Kunming



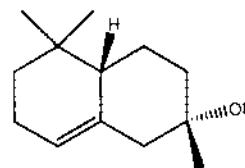
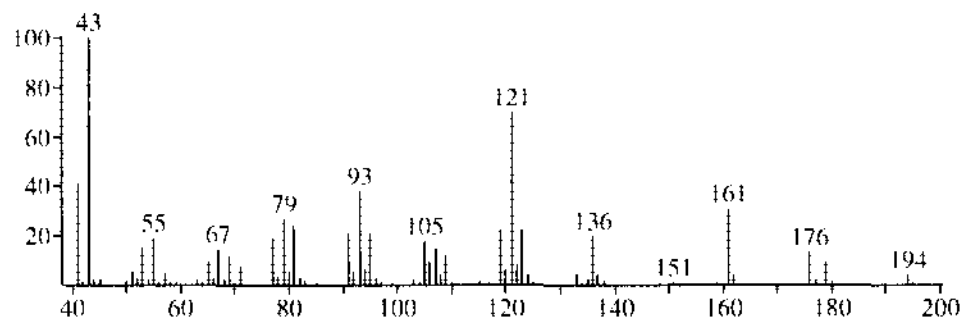
RT: 26.26 AI: 1439 KE: 1441 **Ambrinol <cis-α>**

CAS#: 65759-55-9 MF: C₁₃H₂₂O FW: 194 MSD LIB#: 117

CN: 2-naphthalenol, 1,2,3,4,4a,5,6,7-octahydro-2,5,5-trimethyl-, (2S, 4aS)-

Synonyms: none

Source: Firmenich



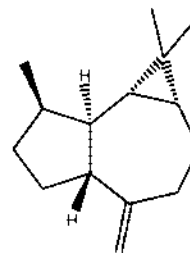
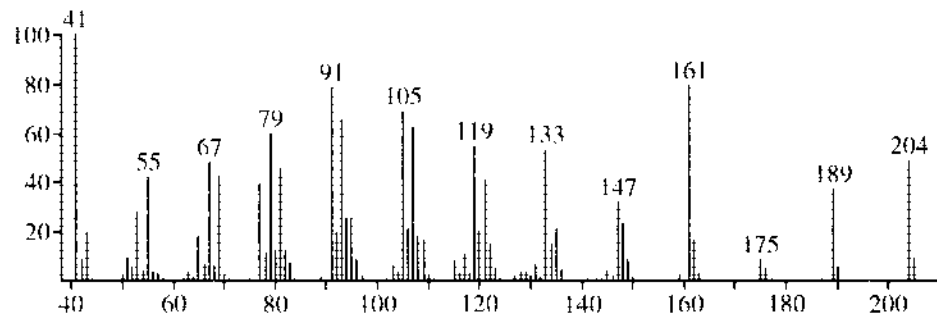
RT: 26.27 AI: 1439 KE: 1441 **Aromadendrene**

CAS#: 489-39-4 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 997

CN: 1H-cyclopropylazulene, decahydro-1,1,7-trimethyl-4-methylene-, (1aR-(1aα,4aα,7a,7aβ,7bα))-

Synonyms: none

Source: *Leptospermum longifolium* ex J.J. Brophy; 90.00% *Tamarindus indica*, JEOR 6:547(1994); 23.90% *Tagetes minuta*; 11.26% *Nicotiana rustica*



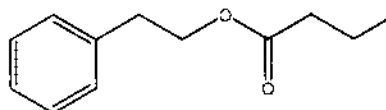
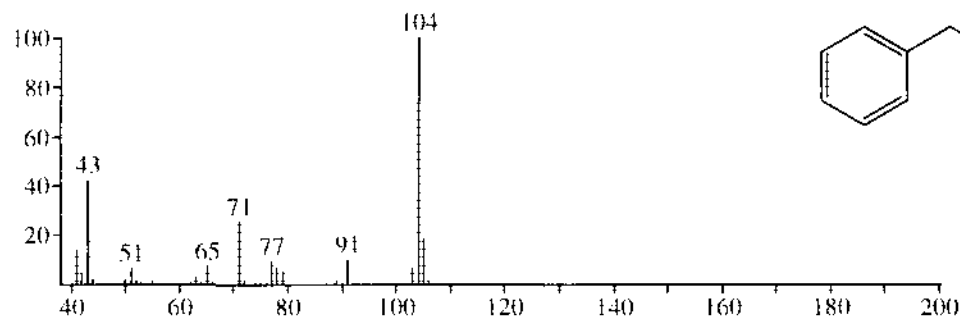
RT: 26.27 AI: 1439 KE: 1441 **Phenyl ethyl butanoate <2>**

CAS#: 103-52-6 MF: C₁₂H₁₆O₂ FW: 192 MSD LIB#: 1277

CN: butanoic acid, 2-phenylethyl ester

Synonyms: benzylearbiny butyrate

Source: Aldrich Chem.



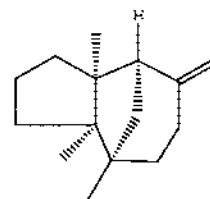
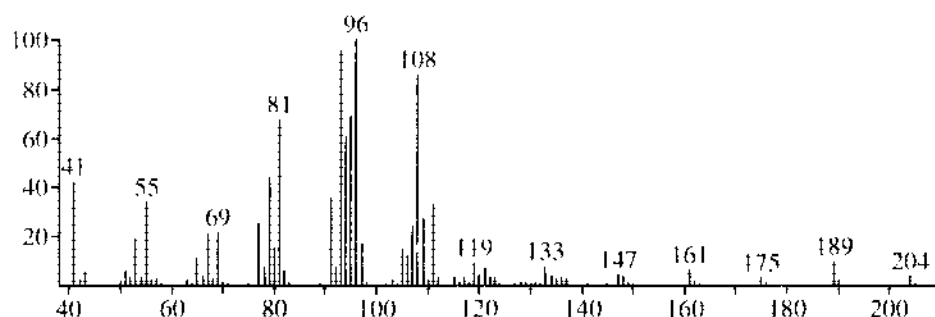
RT: 26.32 AI: 1440 KI: 1442 **Barbatene <β>**

CAS#: 72346-55-5 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1869

CN: 4,8-methanoazulene, decahydro-3a,4,8a-trimethyl-7-methylene-, (3aR,4R, 8R,8aS)-

Synonyms: gymnomitrene

Source: *Bazzania trilobata* ex. W. Koenig



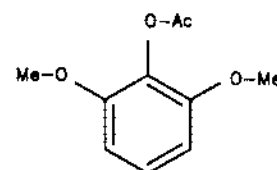
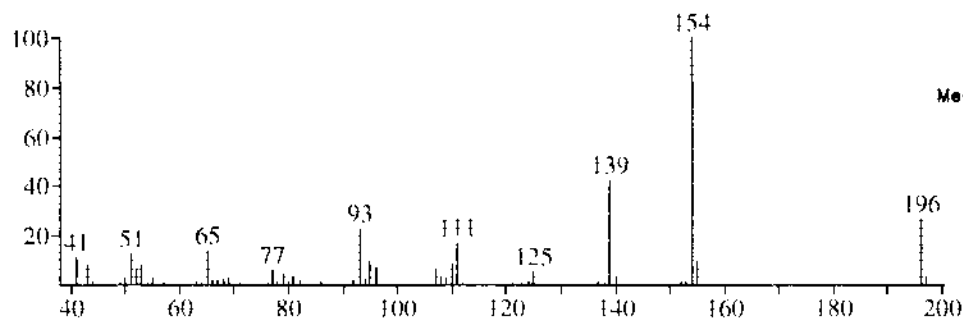
RT: 26.32 AI: 1440 KI: 1442 **Phenol acetate <2,6-dimethoxy>**

CAS#: 944-99-0 MF: C₁₀H₁₂O₄ FW: 196 MSD LIB#: 1270

CN: phenol, 2,6-dimethoxy-, acetate

Synonyms: syringol acetate

Source: ref. cpd. ex E. von Rudloff



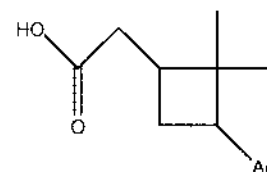
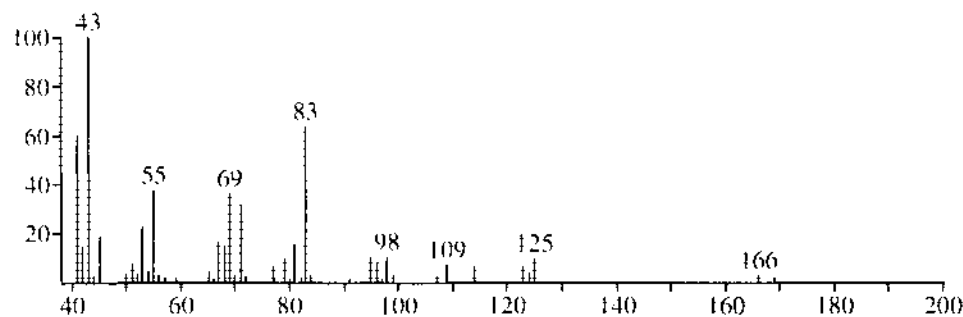
RT: 26.32 AI: 1440 KI: 1442 **Pinonic acid**

CAS#: 473-72-3 MF: C₁₀H₁₆O₃ FW: 184 MSD LIB#: 1746

CN: cyclobutaneacetic acid, 3-acetyl-2,2-dimethyl-

Synonyms: none

Source: ref. cpd. ex E. von Rudloff



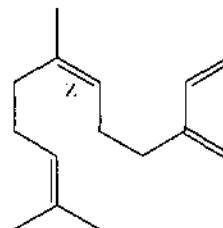
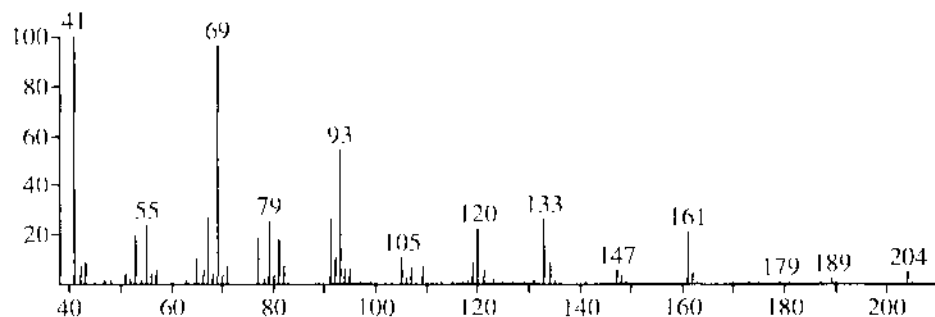
RT: 26.33 AI: 1440 KI: 1442 **Farnesene <(Z)-β->**

CAS#: 28973-97-9 ME: C₁₅H₂₄ FW: 204 MSD LIB#: 359

CN: 1,6,10-dodecatriene, 7,11-dimethyl-3-methylene-, (Z)-

Synonyms: cis-β-farnesene

Source: Carrot root oil ex D. Senalik; 89.18% *Scaligeria lazica* (fruit), JFOR 7:557(1995); 15.97% *Chamomilla recutita*; 11.27% *Elsholtzia ciliata*



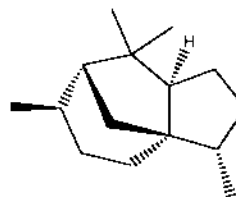
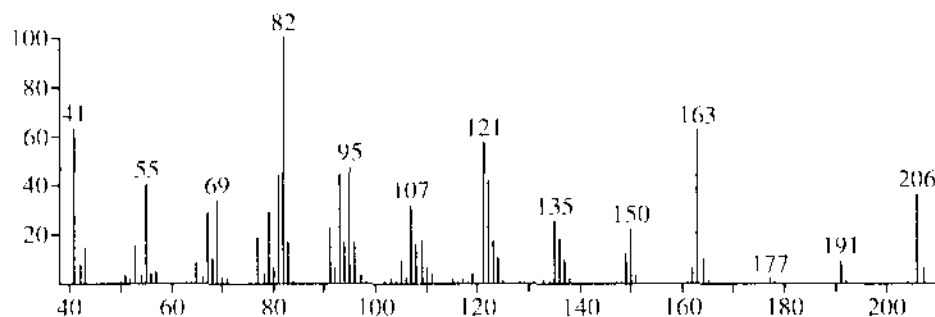
RT: 26.37 AI: 1441 KI: 1443 **Cedrane**

CAS#: 13567-55-0 ME: C₁₅H₂₆ FW: 206 MSD LIB#: 396

CN: 1H-3a,7-methanoazulene, octahydro-3,6,8,8-tetramethyl-, (3R-(3α,3aβ,6β,7β,8α))-

Synonyms: 8-β-cedrane

Source: ref. cpd. ex A Tenaglia; 0.03% *Boswellia frereana*, p. 511, in: Flavors & Off-Flavors Charalambous, Ed., Elsevier Sci. Publ., Amsterdam(1989)



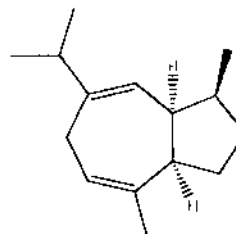
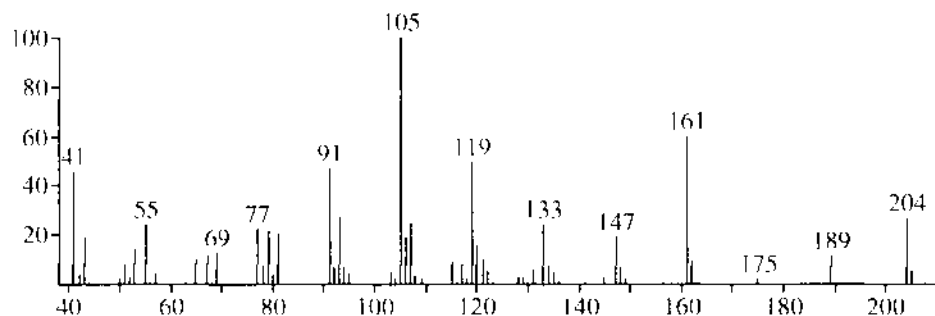
RT: 26.39 AI: 1442 KI: 1444 **Guaiadiene <6,9->**

CAS#: 37839-64-8 ME: C₁₅H₂₄ FW: 204 MSD LIB#: 1795

CN: azulene, 1,2,3,3a,6,8a-hexahydro-1,4-dimethyl-7-(1-methylethyl)-, (1S,3aR,8aR)-

Synonyms: none

Source: ref. cpd. ex Ian Southwell



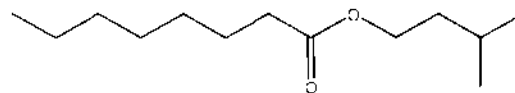
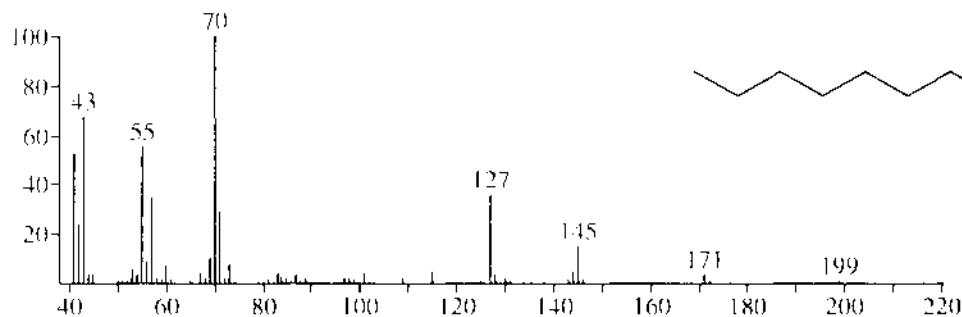
RT: 26.42 AI: 1442 KI: 1445 **Isoamyl octanoate**

CAS#: 2035-99-6 MF: C₁₃H₂₆O₂ FW: 214 MSD LIB#: 1605

CN: octanoic acid, 3-methylbutyl ester

Synonyms: Isopentyl octanoate, isoamyl caprylate

Source: Aldrich Chem.; 0.45% *Cymbopogon martini*, Perf. Flav. 19:29(1994);
0.17% *Pistacia lentiscus* (leaf); 0.06% *Pistacia lentiscus* (fruit)



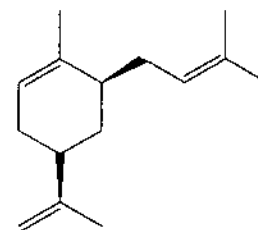
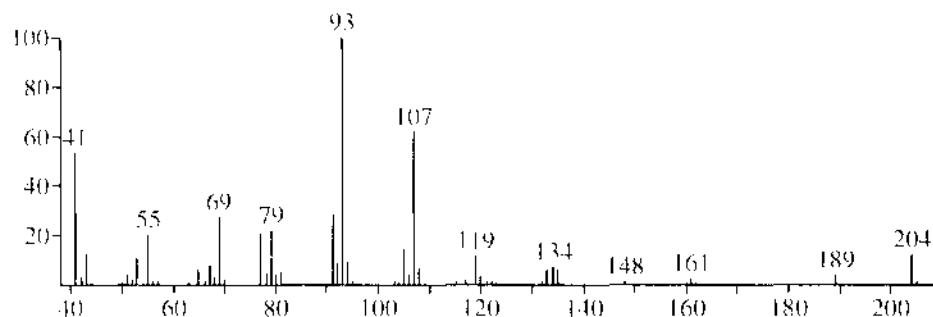
RT: 26.44 AI: 1443 KI: 1445 **Prenyl limonene <cis->**

CAS#: 135267-20-8 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1347

CN: cyclohexene, 1-methyl-6-(3-methyl-2-butenyl)-4-(1-methylethenyl)-, 4S-cis-

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl



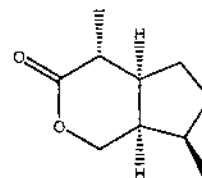
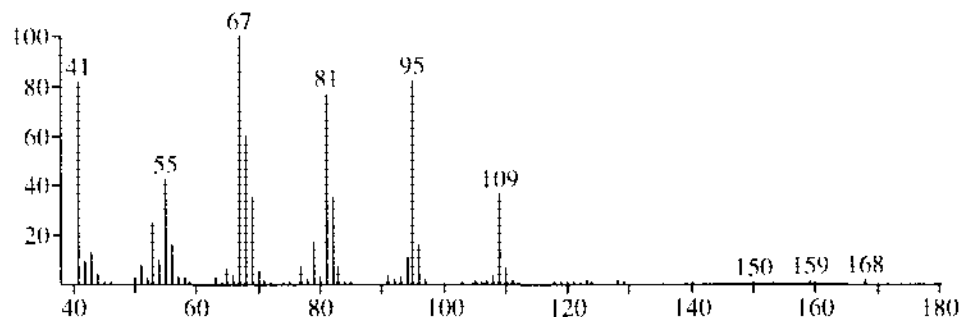
RT: 26.46 AE: 1443 KI: 1446 **Iridolactone <trans, cis->**

CAS#: 128657-97-6 MF: C₁₀H₁₆O₂ FW: 168 MSD LIB#: 1137

CN: cyclopenta(c)pyran-3(1H)-one, hexahydro-4,7-dimethyl-, (4 α ,4 α ,7 β ,7 α)-

Synonyms: isoiridonymecine, 7-epi-

Source: *Nepeta govaniana* oil ex CS Mathela



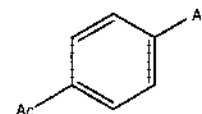
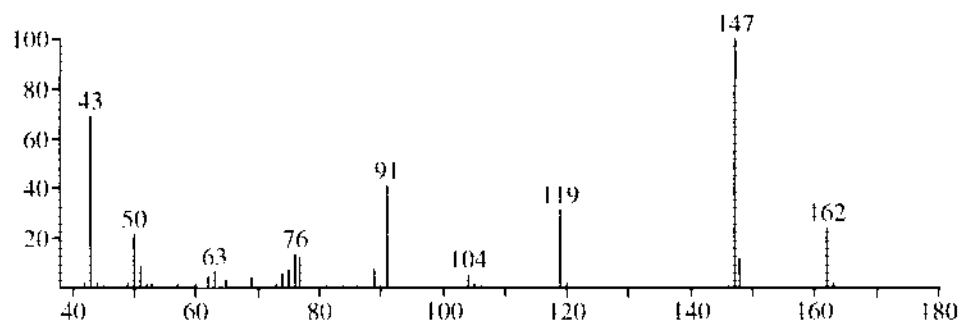
RT: 26.47 AE: 1444 KI: 1446 **Acetylacetophenone <p->**

CAS#: 1009-61-6 MF: C₁₀H₁₀O₂ FW: 162 MSD LIB#: 2166

CN: ethanone, 1,1'-(1,4-phenylene) bis-

Synonyms: diacetylbenzene, p-

Source: *Artemisia anna* roots, Vietnam ex HJ Woerdenbag



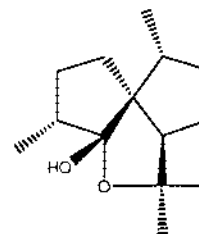
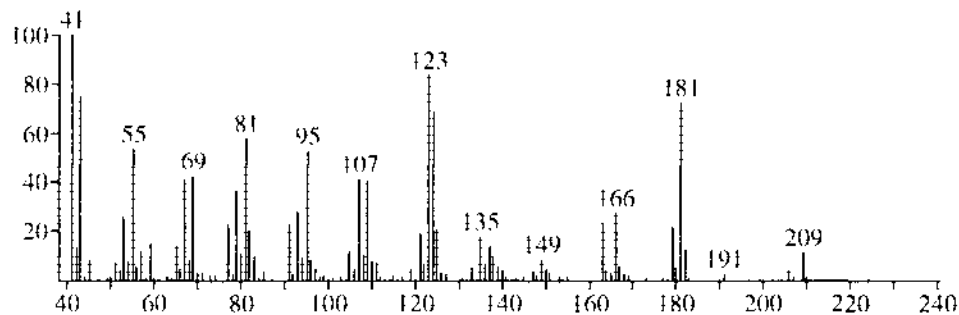
RT: 26.47 AE: 1444 KI: 1446 **Bakerol**

CAS#: 157744-23-5 MF: C₁₄H₂₈O₂ FW: 228 MSD LIB#: 17

CN: 5H-dicyclopenta(b,c)furan-3a(1H)-ol, hexahydro-3,5,5,8-tetramethyl-, (3S,3aR,5aR,8R,8aS)-

Synonyms: none

Source: *Cupressus bakeri* oil ex Larry Cool



RT: 26.47 AI: 1444 KI: 1446 **Citronellyl propanoate**

CAS#: 141-14-0 MF: C₁₃H₂₄O₂ FW: 212 MSD LIB#: 459

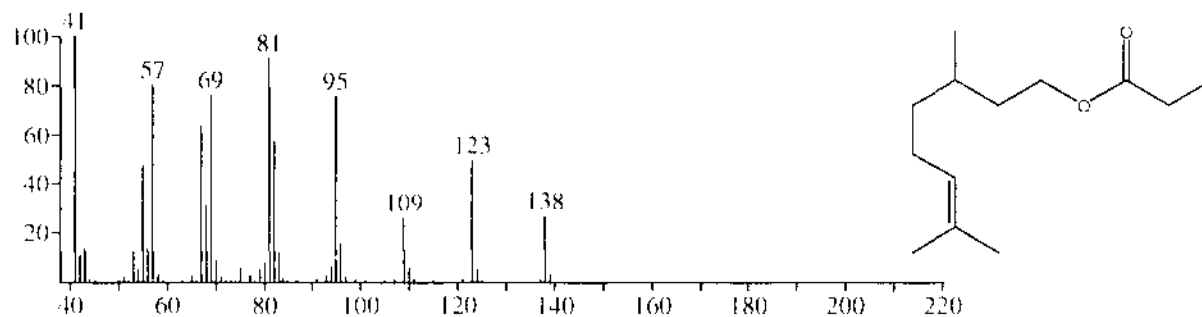
CN: 6-octen-1-ol, 3,7-dimethyl-, propanoate

Synonyms: citronellyl propionate

Source: ICN ex Art Tucker; 2.62% *Pelargonium graveolens* (Algeria),

in: Development of New Essential Oils of the U.S., D. Roberts, et al,

IXth Intl. Ess. Oil Congress Singapore(1983); 0.33% *Artemisia desertorum*



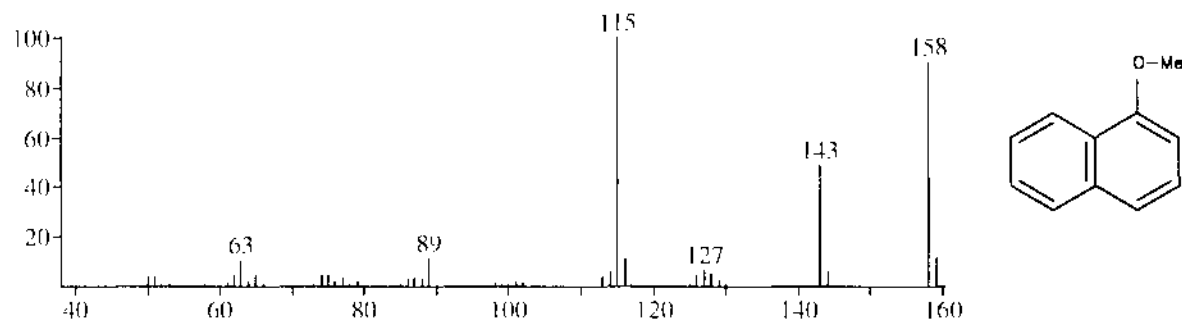
RT: 26.47 AI: 1444 KI: 1446 **Naphthalene <1-methoxy->**

CAS#: 2216-69-5 MF: C₁₁H₁₀O FW: 158 MSD LIB#: 1127

CN: naphthalene, 1-methoxy-

Synonyms: none

Source: K & K Chem. ex H. Hills



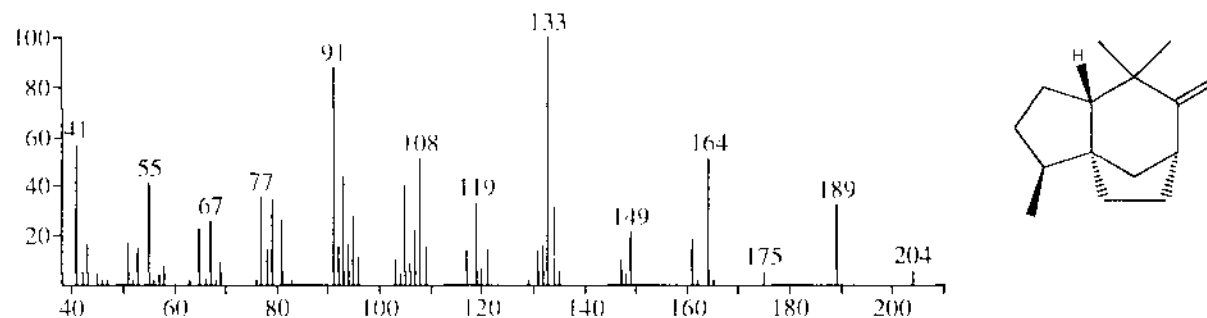
RT: 26.48 AI: 1444 KI: 1446 **Prezizaene**

CAS#: 116498-31-8 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1565

CN: 1H-3a,6-methanoazulene, octahydro-3,8,8-trimethyl-7-methylene-

Synonyms: none

Source: Vetiver oil, cv. SLA, RP Adams #9172



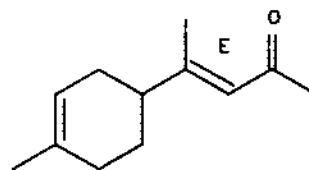
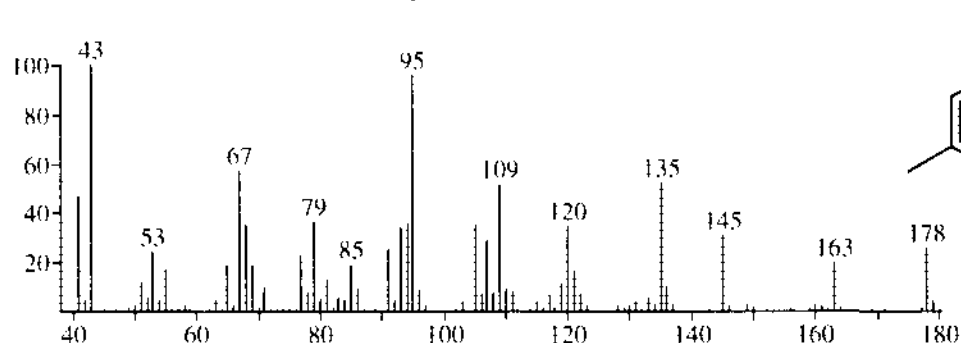
RT: 26.49 AI: 1444 KI: 1446 **Vestitenone**

CAS#: 69401-36-1 MF: C₁₂H₁₈O FW: 178 MSD LIB#: 240

CN: pent-3E-en-2-one, <4-(4-methylcyclohex-3-en-1-yl)->

Synonyms: none

Source: *Artemisia vestita* oil ex P. Weyerstahl



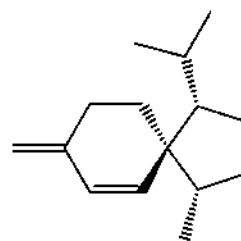
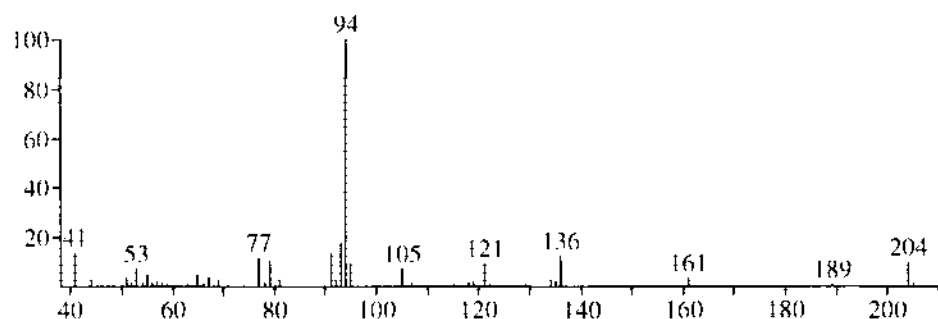
RT: 26.50 AI: 1444 KI: 1446 **Acora-2,4(15)-diene**

CAS#: 94131-45-0 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1572

CN: spiro[4.5]dec-6-ene, 1-methyl-8-methylene-4-(1-methylethyl)-, [1S-(1α,4α,5β)]-

Synonyms: none

Source: *Rosa rugosa* root oil ex. Art Tucker



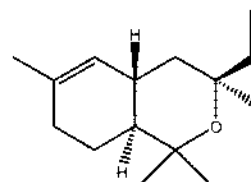
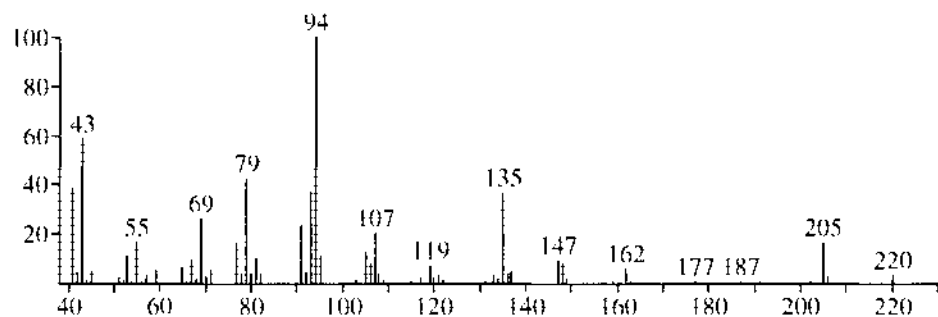
RT: 26.50 AI: 1444 KI: 1446 **Cabreuva oxide A**

CAS#: 107602-54-0 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 338

CN: 1H-2-benzopyran, 3-ethenyl-3,4,4a,7,8,8a-hexahydro-1,1,3,6-tetramethyl-, (3S-(3α,4α,8αβ))-

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl; 0.30% *Baccharis dracunculifolia*, FFI 11:15(1996)



RT: 26.50 AI: 1444 KI: 1446 **Seychellene**

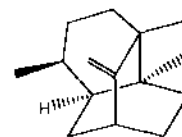
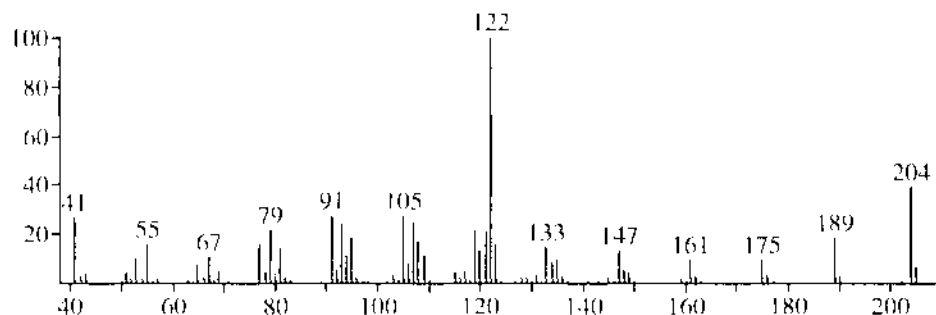
CAS#: 20085-93-2 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1243

CN: 1,6-methanonaphthalene, decahydro-1,4,8a-trimethyl-9-methylene-, (1S-(1 α ,4 α ,4a β ,6 α ,8a β))-

Synonyms: none

Source: Patchouli oil ex Firmenich ex AI: Thomas; 12.94% *Pogostemon cablin* (Costa Rica),

Perf. & Flav. 15:77(1990); 10.35% *Pogostemon cablin* (Indonesia); 1.70% *Nardostachys jatamansi*



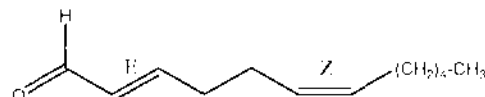
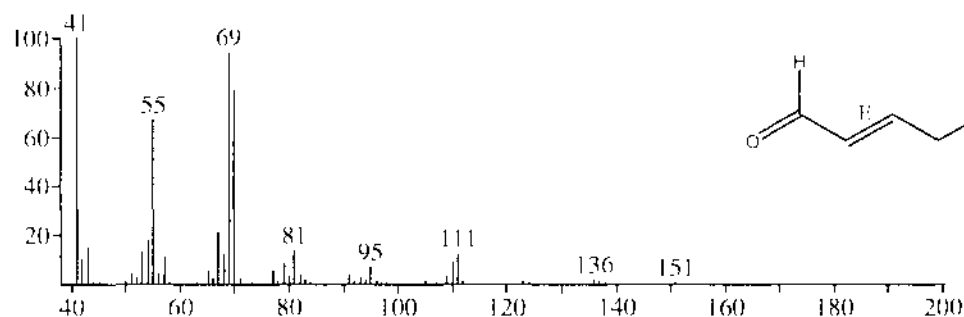
RT: 26.51 AI: 1445 KI: 1447 **Dodecadien-1-al <(2Z,6E)->**

CAS#: 21662-13-5 MF: C₁₂H₂₀O FW: 180 MSD LIB#: 621

CN: 2,6-dodecadienal, (2E, 6Z)-

Synonyms: none

Source: Bedoukian Res. ex Art Tucker



RT: 26.51 AI: 1445 KI: 1447 **Santalene <epi- β ->**

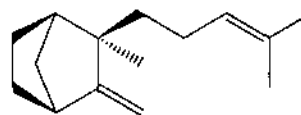
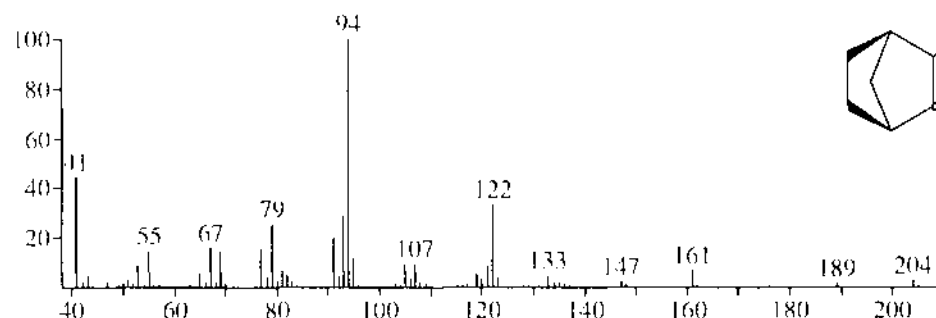
CAS#: 25532-78-9 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1378

CN: bicyclo(2.2.1)heptane, 2-methyl-3-methylene-2-(4-methyl-3-pentenyl)-, (1R-endo)-

Synonyms: none

Source: Sandalwood oil ex Brian Lawrence; 5.00% *Commiphora erythraea*,

Phytochem. 21:677(1982); 2.30% *Santalum album*; 0.75% *Cinnamomum camphora* (bark)



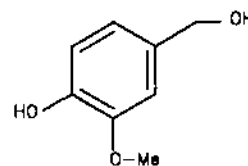
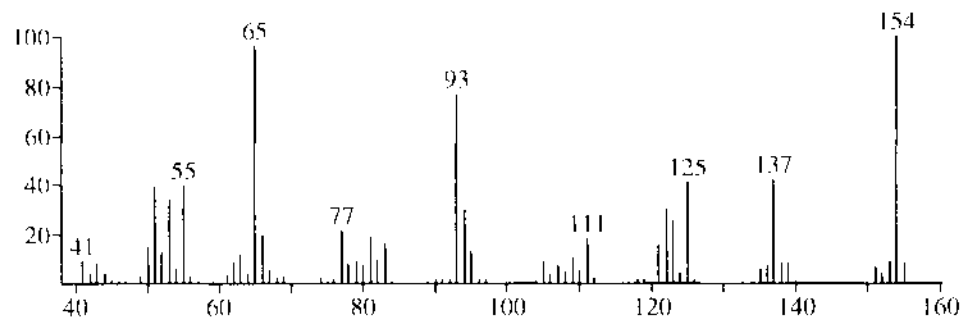
RT: 26.51 AI: 1445 KI: 1447 **Vanillyl alcohol**

CAS#: 498-00-0 MF: C₈H₁₀O₃ FW: 154 MSD LIB#: 1536

CN: 4-hydroxy-3-methoxybenzyl alcohol

Synonyms: none

Source: Aldrich Chem. ex Art Tucker



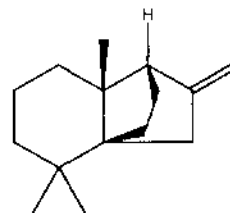
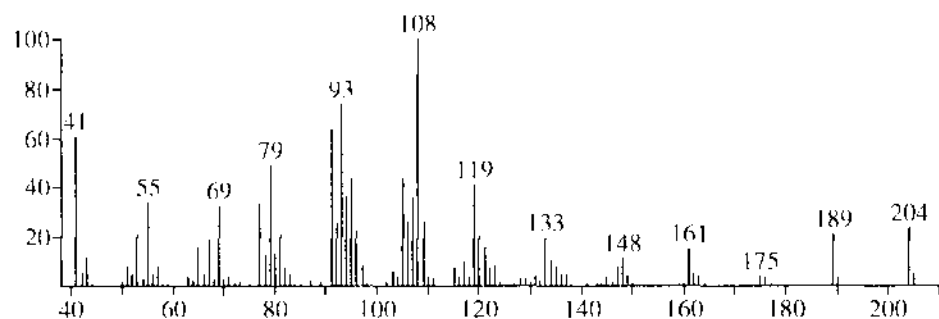
RT: 26.53 AI: 1445 KI: 1447 **Myrtayl-4(12)-ene**

CAS#: 79562-97-3 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1897

CN: 1,3a-ethano-3aH-indene, octahydro 4,4,7a-trimethyl-2-methylene-, (1R,3aS,7aS)-

Synonyms: none

Source: Maque oil ex W. Koenig



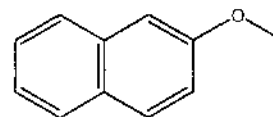
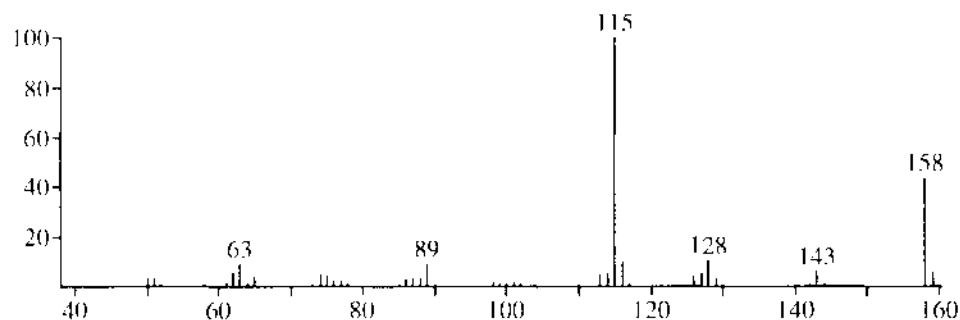
RT: 26.53 AI: 1445 KI: 1447 **Naphthalene <2-methoxy->**

CAS#: 93-04-9 MF: C₁₁H₁₀O FW: 158 MSD LIB#: 1647

CN: naphthalene, 2-methoxy-

Synonyms: 2-naphthol methyl ether, nerolin, yara yara

Source: Aldrich Chem.



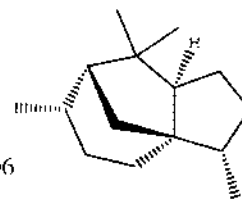
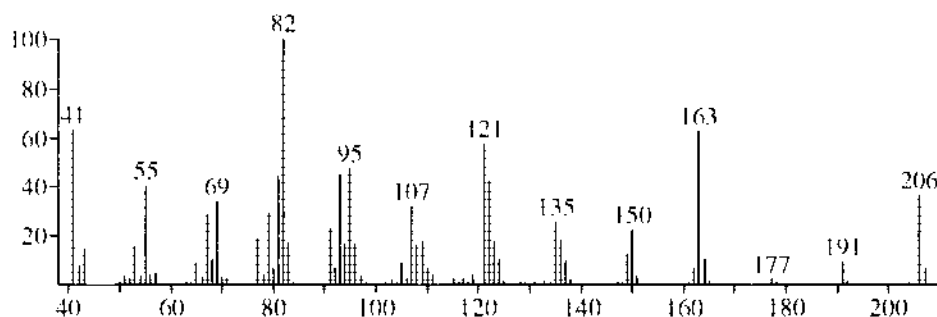
RT: 26.62 AI: 1447 KI: 1449 **Cedrane <epi->**

CAS#: 13567-54-9 MF: C₁₅H₂₆ FW: 206 MSD LIB#: 397

CN: 1H-3a,7-methanoazulene, octahydro-3,6,8-tetramethyl-, (3R-(3 α ,3 β ,6 α ,7 β ,8 α))-

Synonyms: 8- α -cedrane

Source: ref. epd. ex A Tenaglia



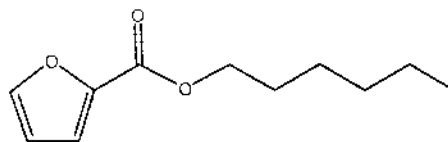
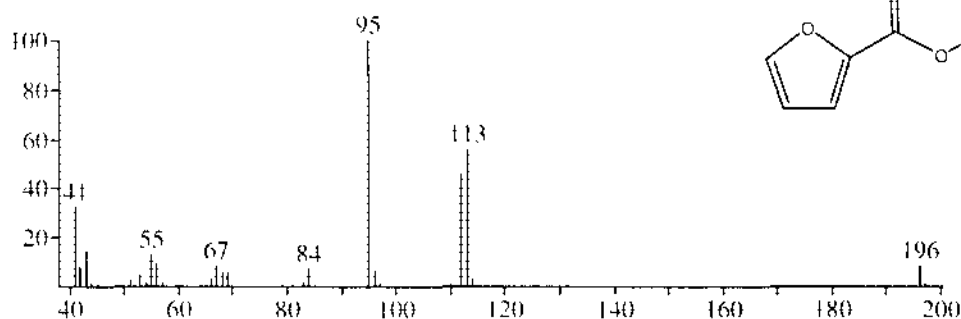
RT: 26.62 AI: 1447 KI: 1449 **Hexyl 2-furoate**

CAS#: 39251-86-0 MF: C₁₁H₁₆O₃ FW: 196 MSD LIB#: 1591

CN: 2-furancarboxylic acid, hexyl ester

Synonyms: none

Source: Aldrich Chem.



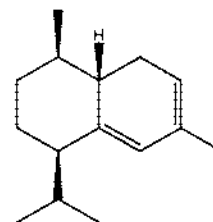
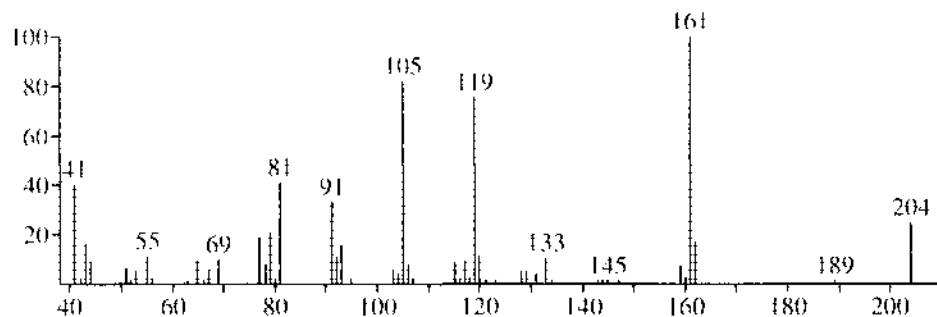
RT: 26.64 AI: 1448 KI: 1450 **Muurola-3,5-diene <cis->**

CAS#: 157374-44-2 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 514

CN: naphthalene, 1,2,3,4,4a,5-hexahydro-4,7-dimethyl-1-(1-methylethyl)-, (1S,4S,4aR)-

Synonyms: none

Source: *Cupressus macnabiana* leaf oil, HC fraction ex Larry Cool



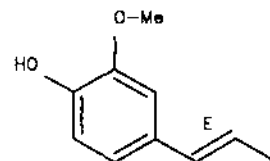
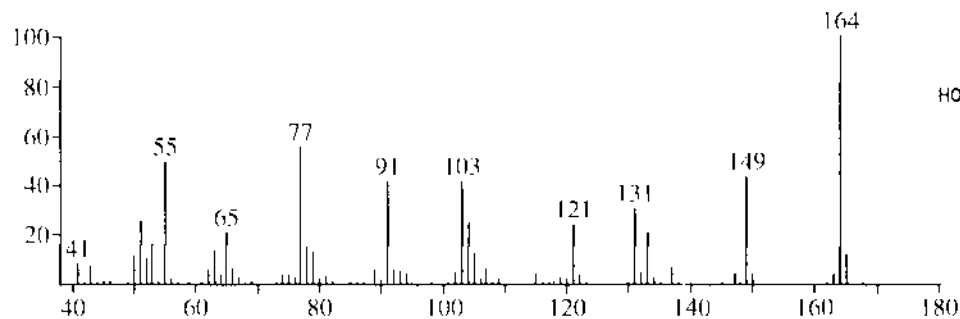
RT: 26.67 AI: 1448 KI: 1451 **Isoeugenol <(E)->**

CAS#: 5932-68-3 MF: C₁₀H₁₂O₂ FW: 164 MSD LIB#: 864

CN: phenol, 2-methoxy-4-(1-propenyl)-, (E)-

Synonyms: trans-isoeugenol

Source: ref. cpd. ex E. von Rudloff; 28.94% *Jasminum officinale*, in: Studies of volatile constituents of *Jasminum Officinale*, Z. Zhang, Proc. Intl. Cong. of Ess. Oils, Flav. Frag. & Cosm., London(1990); 1.63% *Hedychium coronarium*; 1.63% *Mandragora officinarum*



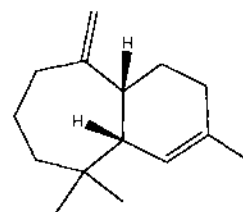
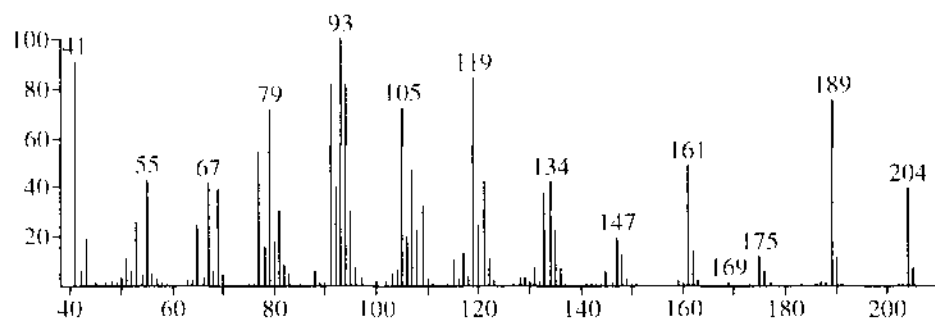
RT: 26.68 AI: 1449 KI: 1451 **Himachalene <α->**

CAS#: 3853-83-6 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 890

CN: 1H-benzocycloheptene, 2,4a,5,6,7,8,9,9a-octahydro-3,5,5-trimethyl-9-methylene-, (4aS-cis)-

Synonyms: none

Source: *Juniperus ashei* wood oil, RP Adams #5127; 15.50% *Cedrus atlantica*, JFOR 6:323(1994); 4.94% *Artemisia absinthum*; 2.82% *Artemisia vestita*



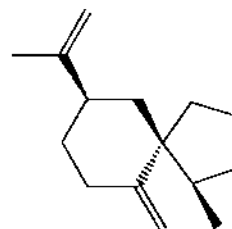
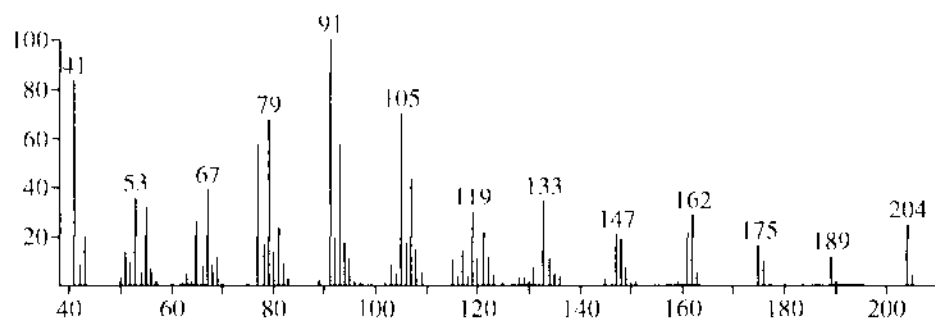
RT: 26.69 AI: 1449 KI: 1451 **Spirolepechinene**

CAS#: 246243-00-5 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1660

CN: spiro(4,5)decane, 1-methyl-6-methylene-9-(1-methylethenyl)-(1R,5S,9R)-

Synonyms: none

Source: *Lepechina bullata* oil ex E. Stahl-Biskup



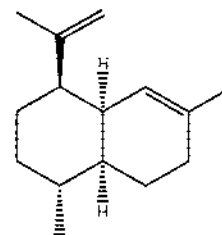
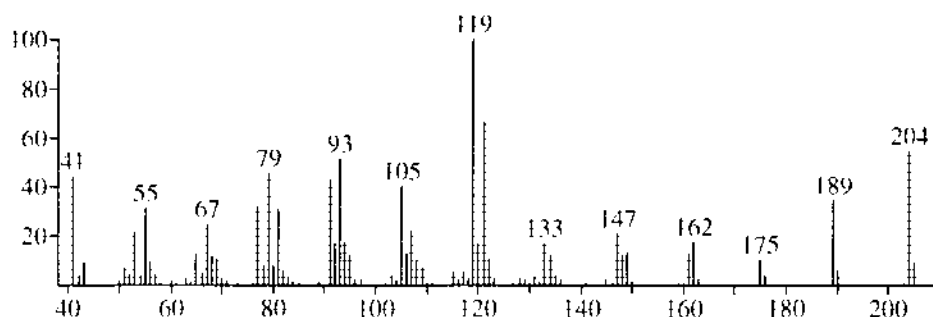
RT: 26.71 AI: 1449 KI: 1451 **Amorpha-4,11-diene**

CAS#: 92692-39-2 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1898

CN: naphthalene, 1,2,3,4,4a,5,6,8a-octahydro-4,7-dimethyl-1-(1-methylethenyl)-, (1R,4R,4aS,8aR)-

Synonyms: none

Source: Maque oil ex W. Koenig



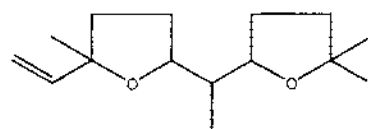
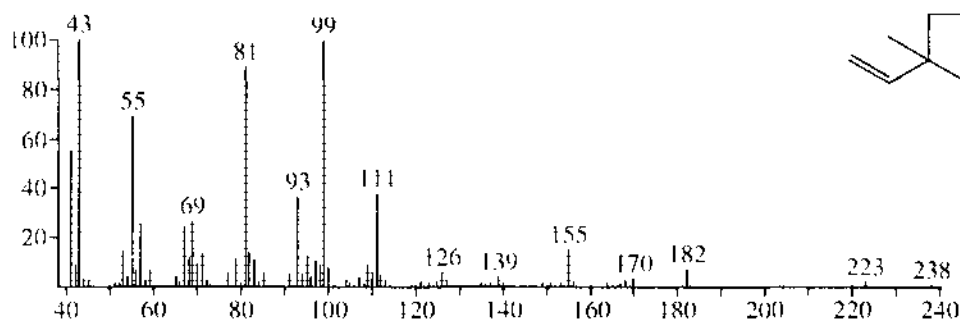
RT: 26.73 AI: 1450 KI: 1452 **Davana, bis-ether**

CAS#: 000-00-0 MF: C₁₅H₂₆O₂ FW: 238 MSD LIB#: 557

CN: not assigned

Synonyms: none

Source: ref. cpd. ex R. Weyerstahl



RT: 26.78 AI: 1451 KI: 1453 **Methyl isoeugenol <(Z)->**

CAS#: 6380-24-1 MF: C₁₁H₁₄O₂ FW: 178 MSD LIB#: 351

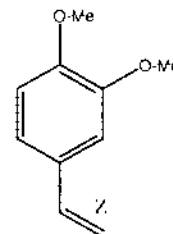
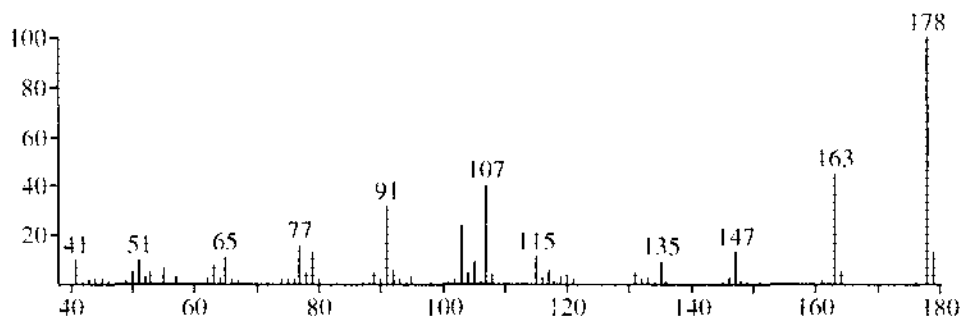
CN: benzene, 1,2-dimethoxy-4-(1-propenyl)-, (Z)-

Synonyms: cis-isomethyleugenol; 4-cis-propenyl veratrole; (Z)-3,4-dimethoxy-β-methyl styrene

Source: Calamus oil ex Firmenich ex AF Thomas; 1.18% *Cymbopogon nardus*,

p. 495, in: Flav. & Frag.: A World Persp., Lawrence, et al., Proc. 10th Intl. Cong. Ess Oils,

Elsevier, Amsterdam (1988); 0.74% *Cinnamomum septentrionale*; 0.60% *Orthodon calveriei*



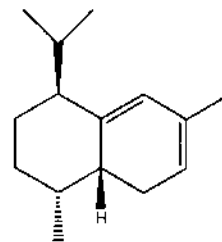
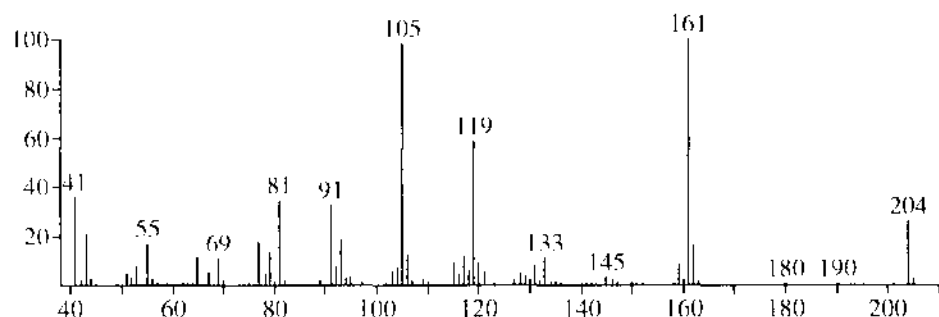
RT: 26.78 AI: 1451 KI: 1453 **Muurola-3,5-diene <trans>**

CAS#: 189165-77-3 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 511

CN: naphthalene, 1,2,3,4,4a,5-hexahydro-4,7-dimethyl-1-(1-methylethyl)-, (1S-(1 α ,4 β ,4a α))-

Synonyms: none

Source: *Cupressus duclouxiana* leaf oil ex Larry Cool



RT: 26.80 AI: 1452 KI: 1454 **Cinnamic acid <(E)>**

CAS#: 140-10-3 MF: C₉H₈O₂ FW: 148 MSD LIB#: 442

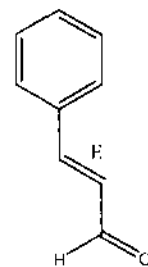
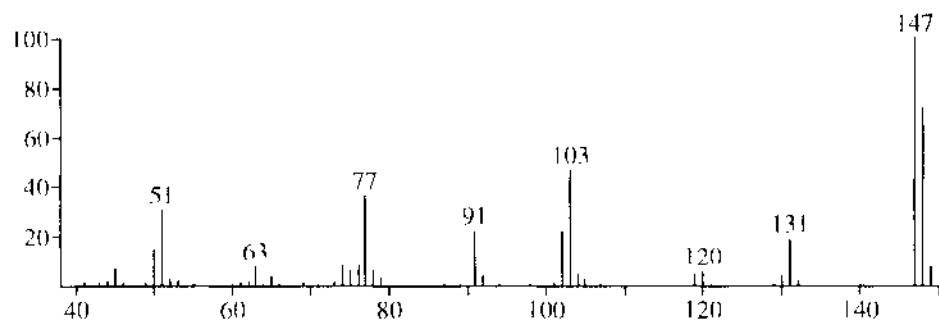
CN: 2-propenoic acid, 3-phenyl-, (E)-

Synonyms: trans β -carboxystyrene

Source: K & K ex H. Hills: 90.05% *Cinnamomum cassia* (bark),

Linchao Huaxue Yu Gongye 7:46(1987); 72.50% *Cinnamomum cassia* (branch & leaf);

70.0% *Cinnamomum zeylanicum*



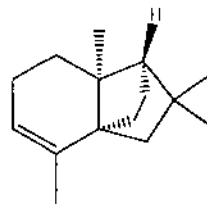
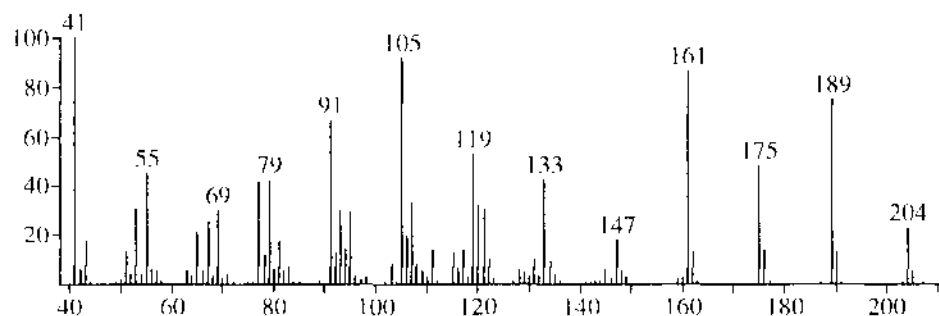
RT: 26.80 AI: 1452 KI: 1454 **Clovene < α -neo>**

CAS#: 4545-68-0 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 463

CN: 1,3a-ethano-3aH-indene, 1,2,3,6,7,7a-hexahydro-2,2,4,7a-tetramethyl-, (1R-(1 α ,3 $\alpha\alpha$,7 $\alpha\alpha$))-

Synonyms: neoclovene

Source: Fluka Chem.



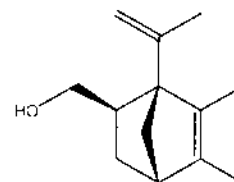
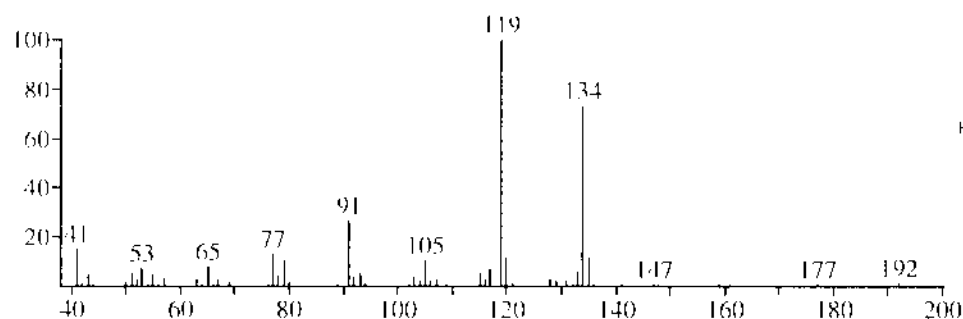
RT: 26.81 AI: 1452 KI: 1454 **Arbozol <exo->**

CAS#: 73127-39-6 MF: C₁₃H₂₀O FW: 192 MSD LIB#: 192

CN: bicyclo(2.2.1)hept-5-ene-2-methanol, 5,6-dimethyl-1-(1-methylethenyl)-, exo-

Synonyms: none

Source: Bedoukian Res. ex Art Tucker



RT: 26.82 AI: 1452 KI: 1454 **Humulene <α->**

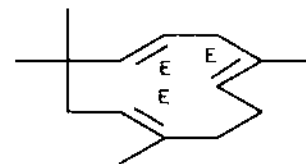
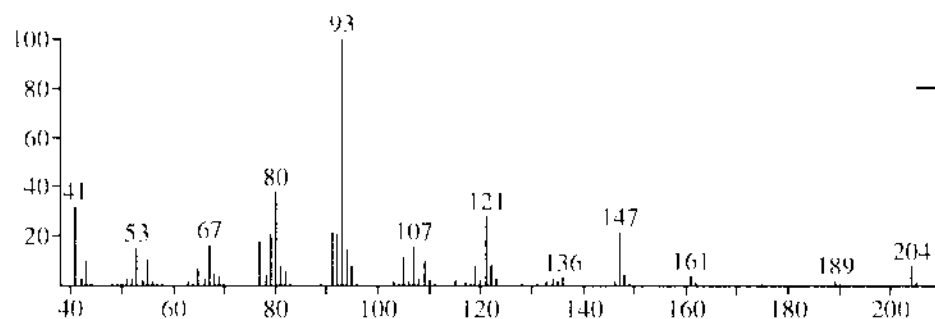
CAS#: 6753-98-6 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 827

CN: tetramethyl-1,4,8-cycloundecatriene <2,6,6,9->

Synonyms: α-caryophyllene

Source: *Hymenaea* oil ex Jean Langenheim; 38.75% *Humulus lupulus*,

J. Ag. Food Chem. 34:63(1986); 34.08% *Aglaia odorata*; 31.30% *Aframomum melegueta*



RT: 26.83 AI: 1452 KI: 1454 **Neryl propanoate**

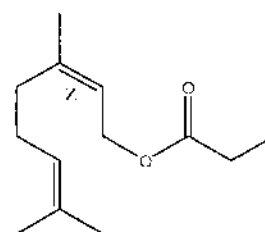
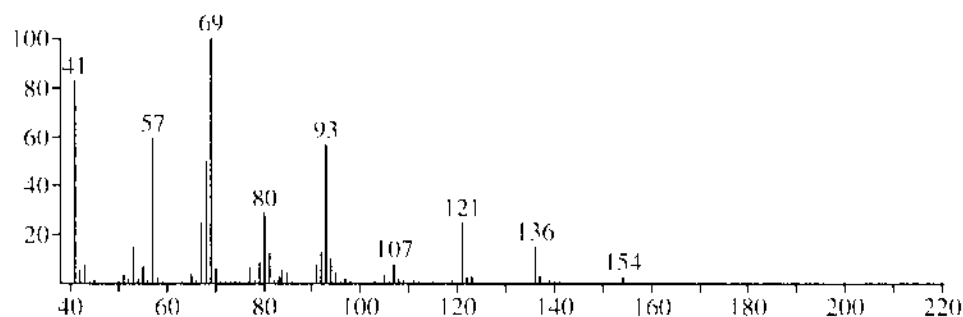
CAS#: 105-91-9 MF: C₁₃H₂₂O₂ FW: 210 MSD LIB#: 1149

CN: 2,6-octadien-1-ol, 3,7-dimethyl-, propanoate, (Z)-

Synonyms: neryl propionate

Source: Bedoukian Res. ex Art Tucker; 2.40% *Cymbopogon distans*,

p. 301, in: Flav. & Frag.: A World Persp., Lawrence, et al., Proc. 10th Intl. Cong. Ess. Oils, Elsevier, Amsterdam (1988); 1.20% *Helichrysum italicum*; 0.60% *Dracocephalum kotschyi*



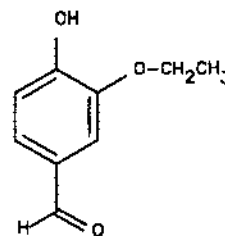
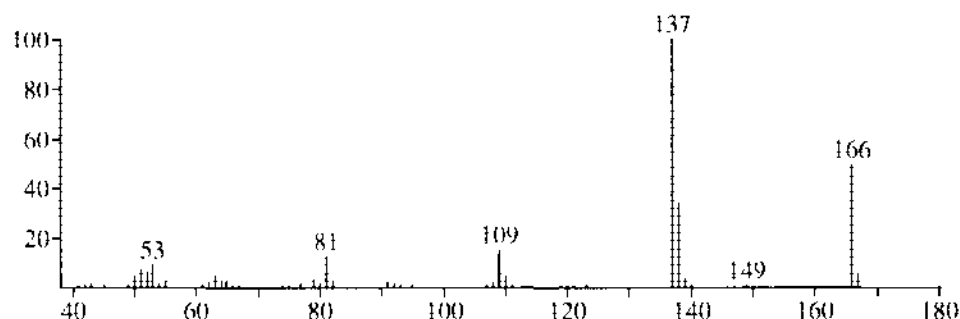
RT: 26.83 AE: 1452 KI: 1454 **Vanillin <ethyl->**

CAS#: 121-32-4 MF: C₉H₁₀O₃ FW: 166 MSD LIB#: 680

CN: benzaldehyde, 3-ethoxy-4-hydroxy-

Synonyms: ethylprotal; quantrovanil; 4-hydroxy-3-ethoxybenzaldehyde

Source: Givaudan ex H Hills



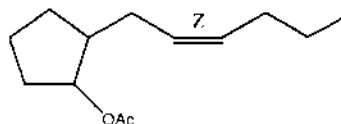
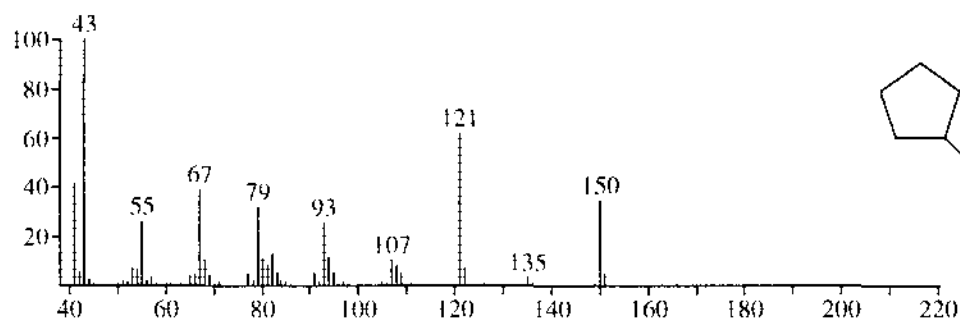
RT: 26.84 AE: 1452 KI: 1455 **Jasmonyl acetate <(Z)->**

CAS#: 000-00-0 MF: C₁₃H₂₂O₂ FW: 210 MSD LIB#: 2137

CN: cyclopentanol, 2-(2-hexenyl)-, acetate, (Z)-

Synonyms: none

Source: Bedoukian Res.



RT: 26.85 AE: 1453 KI: 1455 **Geranyl acetone**

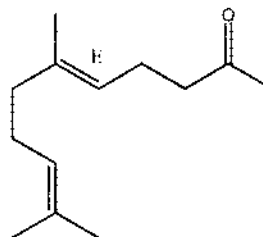
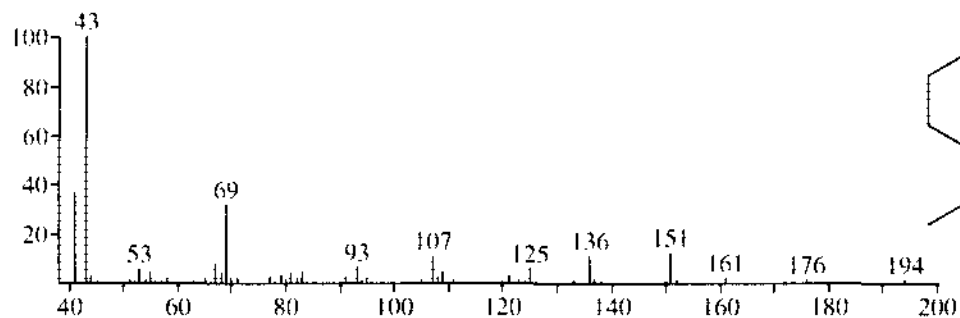
CAS#: 3796-70-1 MF: C₁₃H₂₂O FW: 194 MSD LIB#: 734

CN: 5,9-undecadien-2-one, 6,10-dimethyl-, (E)-

Synonyms: trans-geranyl acetone

Source: ref. cpd. H. Hills; 2.18% *Croton eluteria*, FFJ 6:193(1991);

1.60% *Vitis vinifera* (flower); 1.40% *Clerodendrum fragrans* (flower)



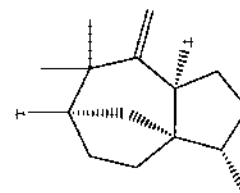
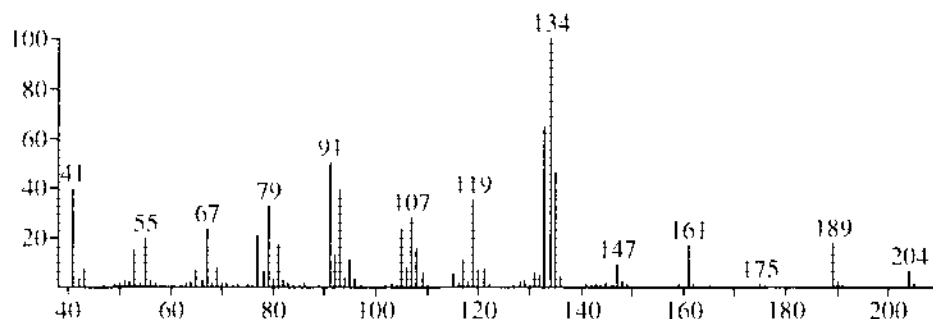
RT: 26.85 AI: 1453 KI: 1455 **Khusimene**

CAS#: 18444-94-5 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1554

CN: 1H-3a,6-methanoazulene, octahydro-3,7,7-trimethyl-8-methylene-, (3S-(3 α ,3 α ,6 α ,8 α))-

Synonyms: tricyclovetivene; zizaene

Source: Vetiver alcoholic fraction ex Nicole Sellier



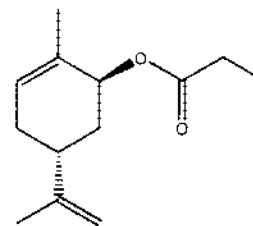
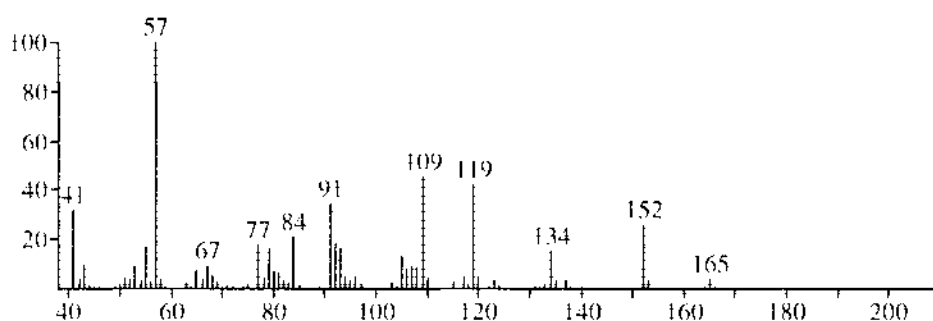
RT: 26.90 AI: 1454 KI: 1456 **Carvyl propanoate <trans->**

CAS#: 74431-24-6 MF: C₁₃H₂₀O₂ FW: 208 MSD LIB#: 379

CN: 2-cyclohexen-1-ol, 2-methyl-5-(1-methylethenyl)-, propanoate, (1S-trans)-

Synonyms: none

Source: Nickstadt Chem. ex Art Tucker



RT: 26.92 AI: 1454 KI: 1456 **Farnesene <(E)-β->**

CAS#: 18794-84-8 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 360

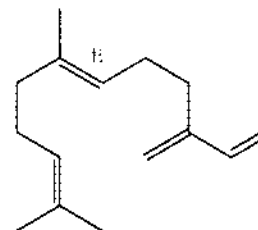
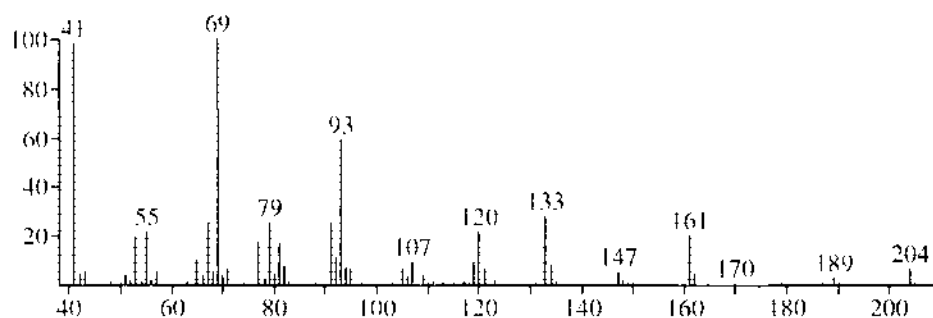
CN: 1,6,10-dodecatriene, 7,11-dimethyl-3-methylene-, (E)-

Synonyms: trans-β-farnesene

Source: Carrot root oil ex D. Senalik; 79.21% *Chaerophyllum coloratum* (fruit),

JEOR 7:529(1995); 68.46% *Chaerophyllum coloratum* (umbel);

25.68% *Chamomilla recutita*



RT: 26.92 AI: 1454 KI: 1456 **Patchoulene <α>**

CAS#: 560-32-7 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1241

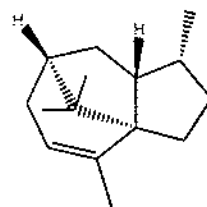
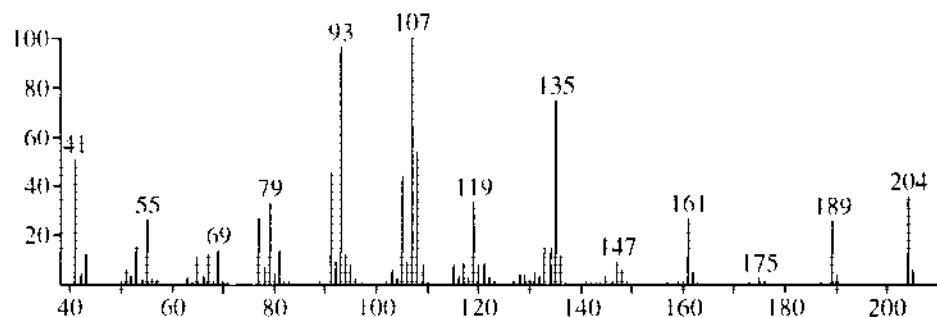
CN: 1H-3a,7-methanoazulene, 2,3,6,7,8,8a-hexahydro-1,4,9,9-tetramethyl-, (1α,3α,8αβ)-

Synonyms: none

Source: Patchouli oil ex Firmenich ex AF Thomas; 29.80% *Nardostachys jatamansi*,

in: Das Aetherische Oel aus *Nardostachys jatamansi*, K. Bruns, 11th Intl. Arbeitstagung Vorkommen,

The Netherlands(1980); 22.00% *Pogostemon cablin*; 7.50% *Psiadia viscosa*



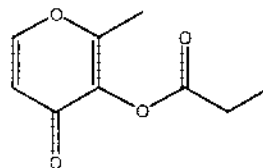
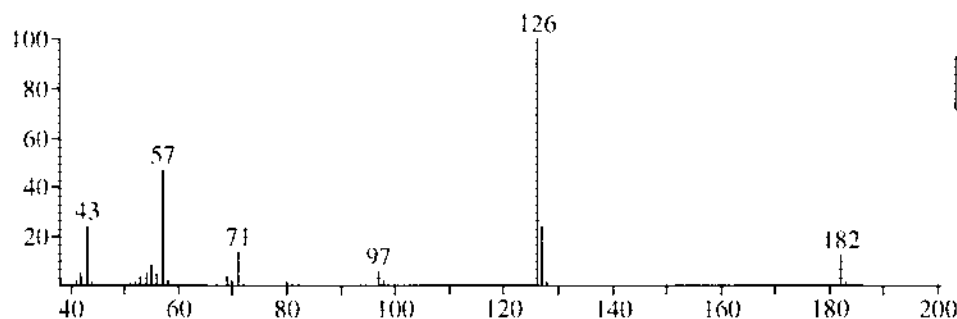
RT: 26.99 AI: 1456 KI: 1458 **Maltol propionate**

CAS#: 68555-63-5 MF: C₉H₁₀O₄ FW: 182 MSD LIB#: 2038

CN: 4H-pyran-4-one, 2-methyl-3-(1-oxopropoxy)-

Synonyms: none

Source: Bedoukian Res.



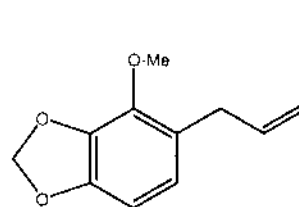
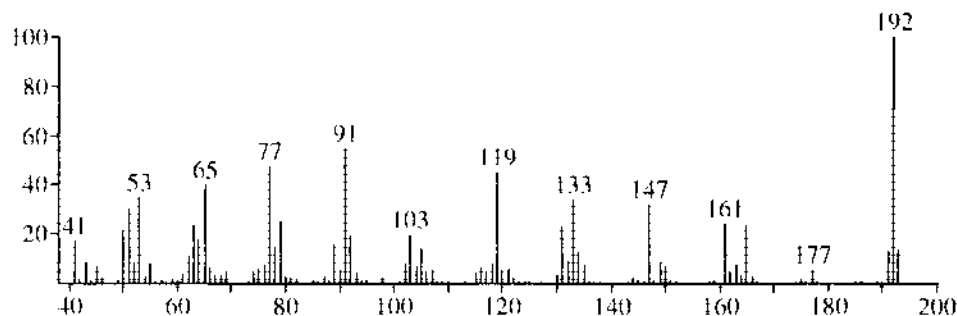
RT: 27.04 AI: 1457 KI: 1459 **Croweacin**

CAS#: 484-34-4 MF: C₁₁H₁₂O₃ FW: 192 MSD LIB#: 489

CN: 1,3-benzodioxole, 4-methoxy-5-(2-propenyl)-

Synonyms: none

Source: *Crocea exalta* ex J. Brophy



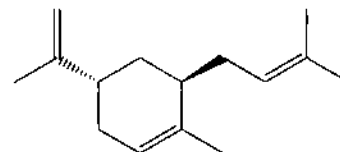
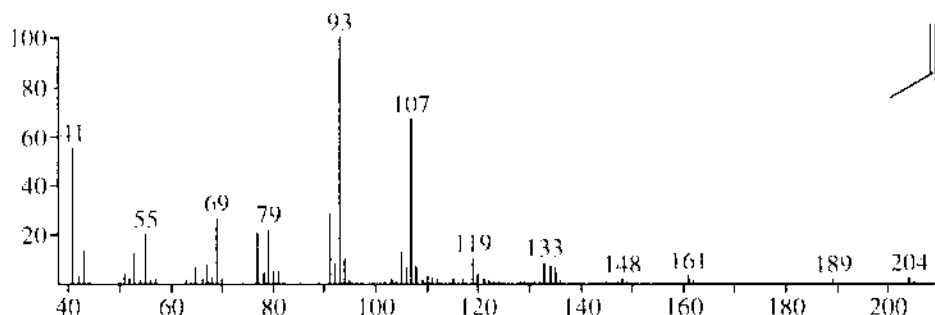
RT: 27.04 AI: 1457 KI: 1459 **Prenyl limonene <trans>**

CAS#: 135267-19-5 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1348

CN: cyclohexene, 1-methyl-6-(3-methyl-2-butenyl)-4-(1-methylethenyl)-, (4S-trans)-

Synonyms: none

Source: ref. epd. ex P. Weyerstahl



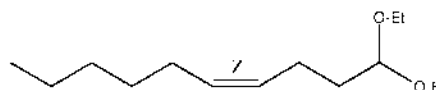
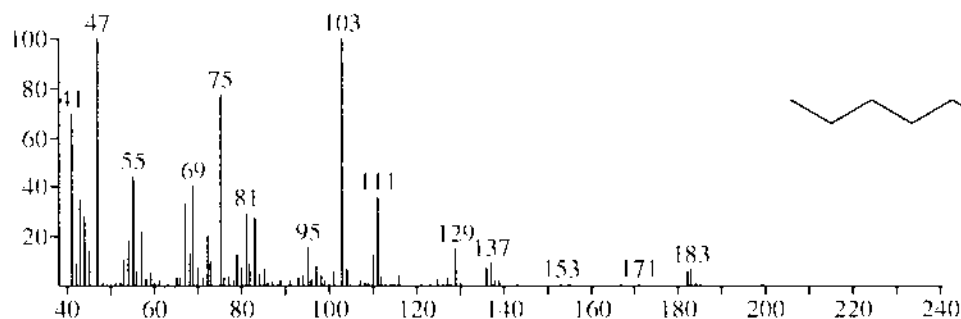
RT: 27.05 AI: 1457 KI: 1459 **Decenal <(4Z)->, diethyl acetal**

CAS#: 73545-19-4 MF: C₁₄H₂₈O₂ FW: 228 MSD LIB#: 579

CN: 4-decene, 1,1-diethoxy-, (Z)-

Synonyms: none

Source: Bedoukian Res. ex Art Tucker



RT: 27.05 AI: 1457 KI: 1459 **Rotundene**

CAS#: 65128-08-7 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1843

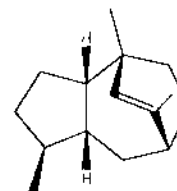
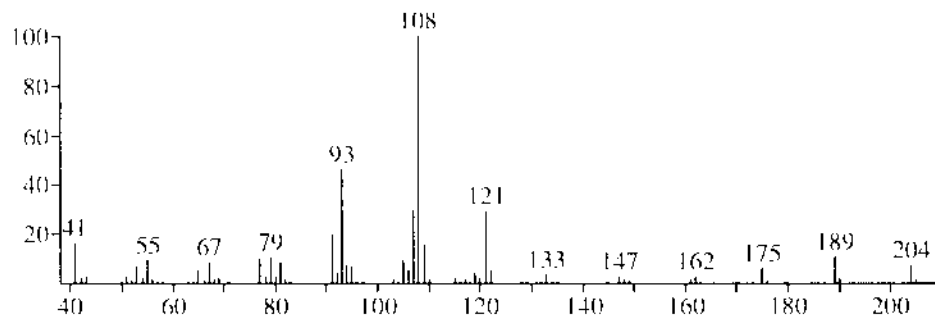
CN: 4,7-ethanoazulene, 1,2,3,3a,4,7,8,8a-octahydro-1,4,6-trimethyl-

Synonyms: Rotundene <11>

Source: *Cyperus maculatus* root oil ex J-M Bessiere; 4.75% *Cyperus scariosus*,

Proc. 11th Intl. Cong. of Ess. Oils, New Delhi, India 4:161 (1989);

2.00% *Scleria striatinux* (rhizome)



RT: 27.05 AI: 1457 KI: 1459 **Santalene < β >**

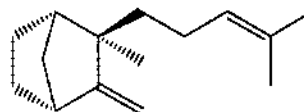
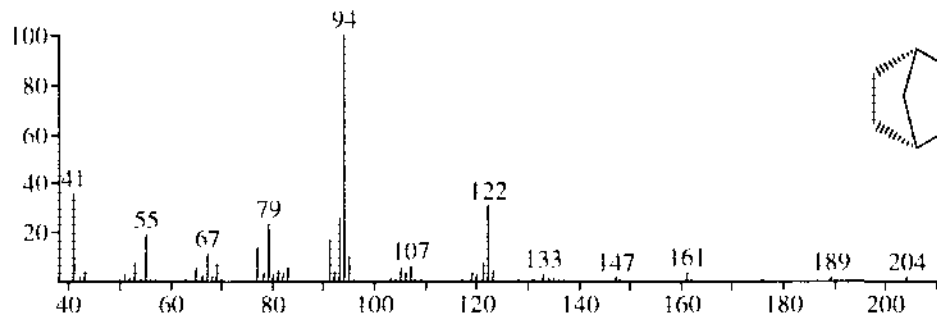
CAS#: 511-59-1 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1383

CN: bicyclo(2.2.1)heptane, 2-methyl-3-methylene-2-(4-methyl-3-pentenyl)-, (1S-exo)-

Synonyms: none

Source: Sandalwood oil ex Brian Lawrence; 3.10% *Cinnamomum camphora*,

JEOR 7:313(1995); 2.35% *Daphne genkwa*; 1.82% *Santalum album*



RT: 27.05 AI: 1457 KI: 1459 **Sesquisabinene**

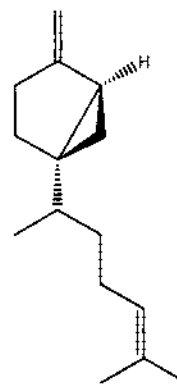
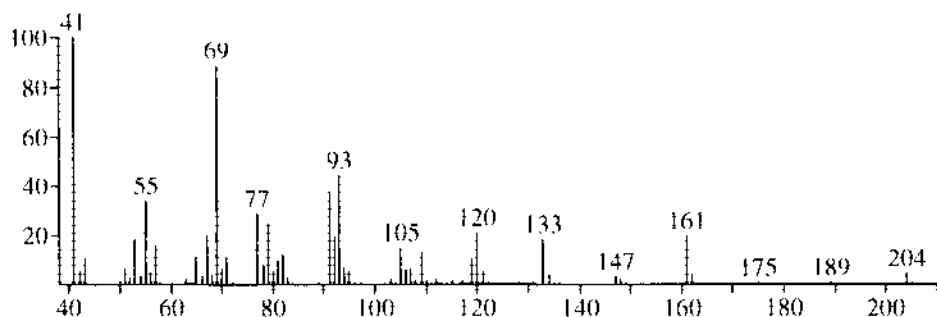
CAS#: 58319-04-3 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 142

CN: bicyclo(3.1.0)hexane, 1-(1,5-dimethyl)-4-methylene-

Synonyms: none

Source: *Amuris diatrypa* (Dom. Rep.) oil ex Tom Zanoni; 0.50% *Phoebe porosa*,

FEJ 9:179(1994); 0.01% *Piper nigrum*



RT: 27.07 AI: 1458 KI: 1460 **Aromadendrene <allo>**

CAS#: 25246-27-9 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 467

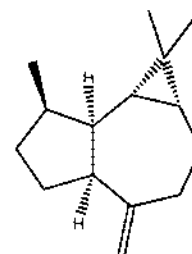
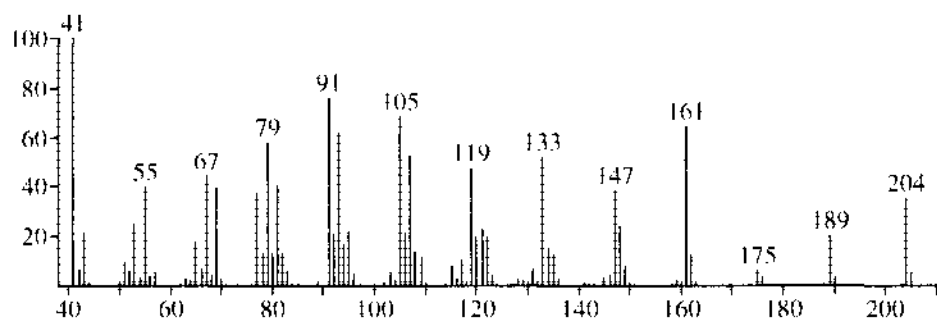
CN: 1H-cycloprop(e)azulene, decahydro-1,1,7-trimethyl-4-methylene-, (1R-(1a α ,4a β ,7a,7a β ,7b α))-

Synonyms: none

Source: *Copaiba* resin, Brazil ex Peter White; *Juniperus ashei* wood oil;

23.37% *Eucalyptus globulus*, Tianran Chanwu Yanjiu Yu Kaifa 2:51(1990);

19.04% *Santolina chamaecyparissus*; 18.95% *Sage dalmatian*



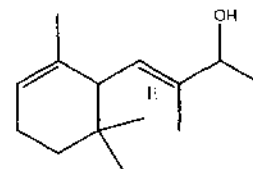
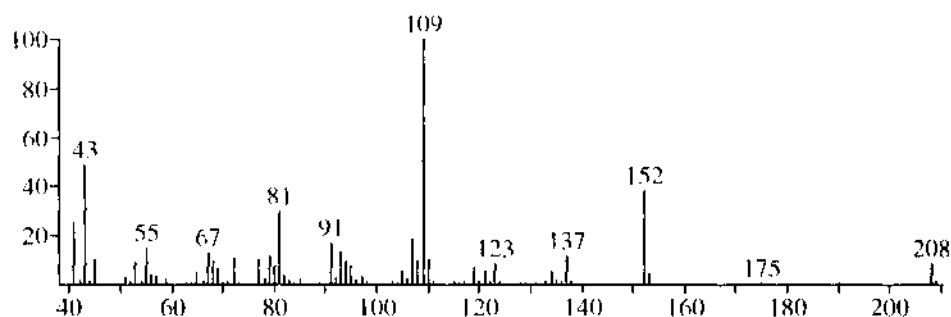
RT: 27.08 AI: 1458 KI: 1460 **Ionol < α -isomethyl-(E)->**

CAS#: 449207-78-7 MF: C₁₄H₂₄O FW: 208 MSD LIB#: 2109

CN: 3-buten-2-ol, 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)- (3E)-

Synonyms: none

Source: Bedoukian Res.



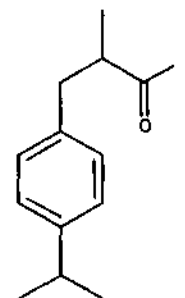
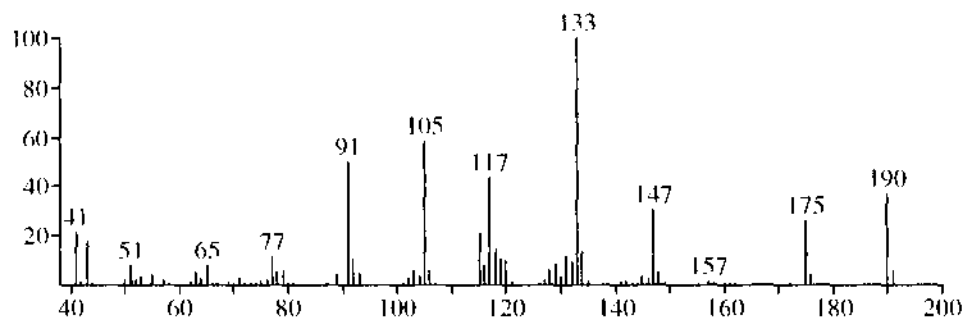
RT: 27.10 AI: 1459 KI: 1461 **Cyclamen aldehyde**

CAS#: 103-95-7 MF: C₁₃H₁₈O FW: 190 MSD LIB#: 529

CN: benzenepranal, α -methyl-4-(1-methylethyl)-

Synonyms: cyclamal

Source: ref, cpd, ex Art Tucker



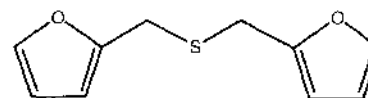
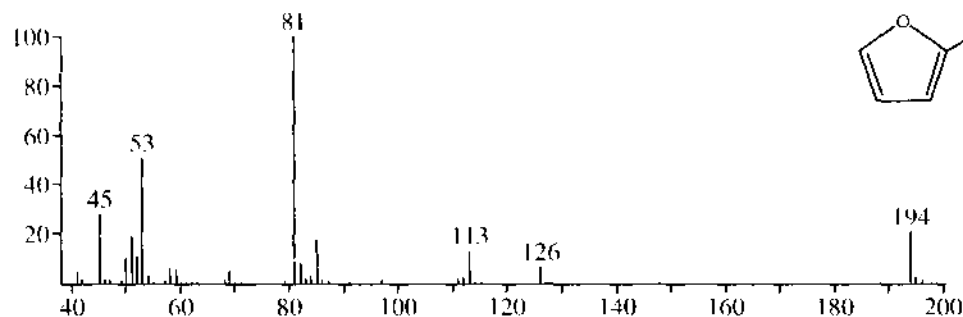
RT: 27.10 AI: 1459 KI: 1461 **Difurfuryl sulfide**

CAS#: 13678-67-6 MF: C₁₀H₁₀O₂S FW: 194 MSD LIB#: 1699

CN: furfuryl sulfide

Synonyms: furfuryl sulfide

Source: Aldrich Chem.



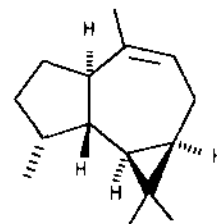
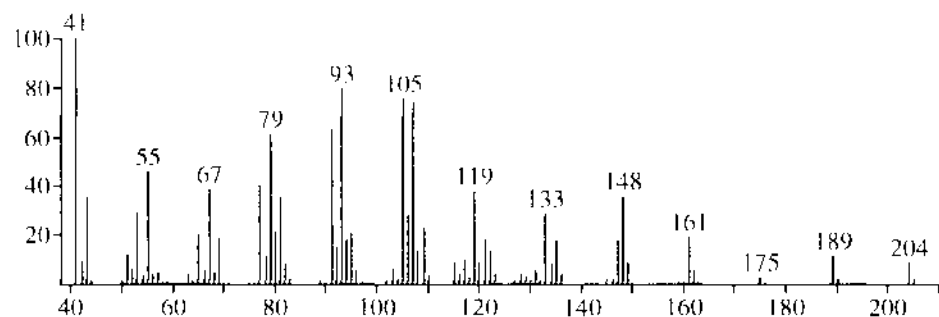
RT: 27.16 AI: 1460 KI: 1462 **Aromadendrane <dehydro->**

CAS#: 85048-01-7 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 198

CN: 1H-cycloprop(e)azulene, 1a,2,4a,5,6,7,7a,7b-octahydro-1,1,4,7-tetramethyl-, (1aR-(1a α ,4a α ,7a,7b β))

Synonyms: aromadendrene, 9-

Source: Fluka



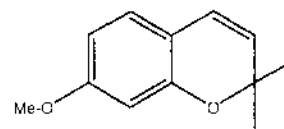
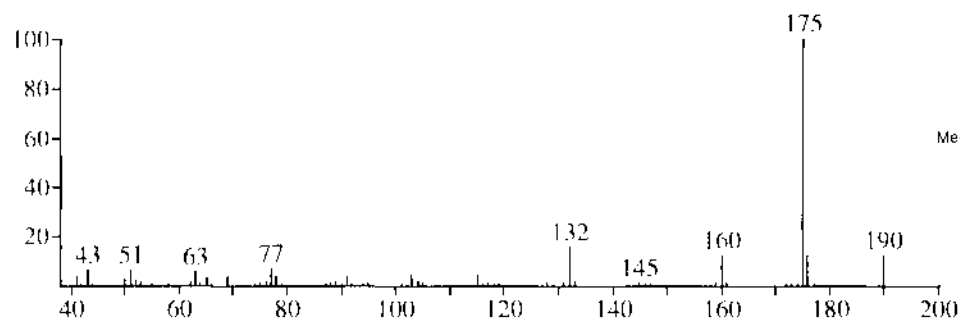
RT: 27.18 AI: 1461 KI: 1463 **Ageratochromene <6-demethoxy->**

CAS#: 17598-02-6 MF: C₁₂H₁₄O₂ FW: 190 MSD LIB#: 21

CN: 2H-1-benzopyran, 2,2-dimethyl-7-methoxy-

Synonyms: preocene I

Source: *Ageratum houstonianum* ex Aldo Tara, Italy



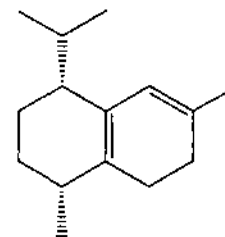
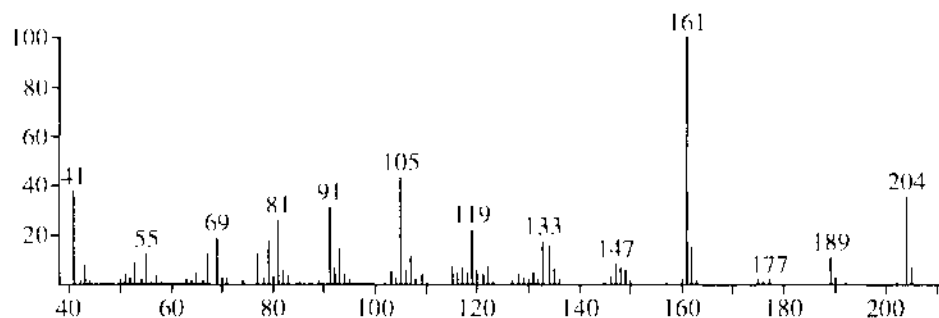
RT: 27.18 AI: 1461 KI: 1463 **Cadina-1(6),4-diene<cis->**

CAS#: 246522-85-0 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1870

CN: naphthalene, 1,2,3,4,5,6-hexahydro-4,7-dimethyl-1-(1-methylethyl)-, (1R,4R)-

Synonyms: 7βH,10βH-cadina-1(6),4-diene

Source: *Bazzania trilobata* ex W. Koenig



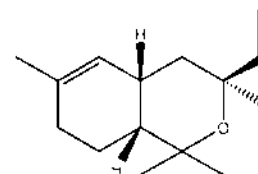
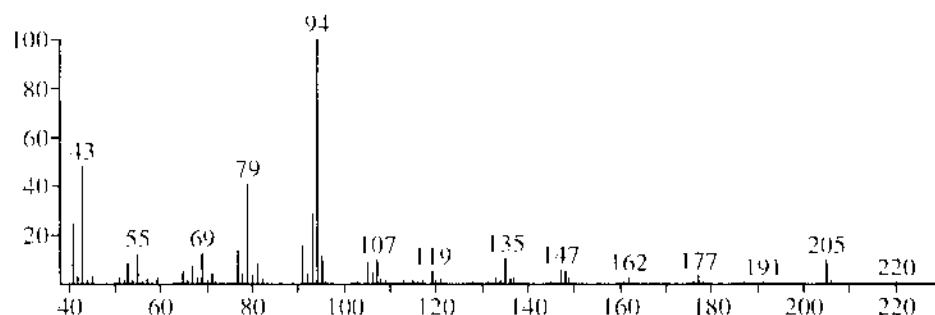
RT: 27.23 AI: 1462 KI: 1464 **Cabreuva oxide B**

CAS#: 107602-53-9 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 339

CN: 1H-2-benzopyran, 3-ethenyl-3,4,4a,7,8,8a hexahydro-1,1,3,6-tetramethyl-, (3S-(3 α ,4 α ,8 α))-

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl; 1.30% *Baccharis dracunculifolia*, FEI 11:15 (1996)



RT: 27.32 AI: 1464 KI: 1466 **Acoradiene < α >**

CAS#: 24048-44-0 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 892

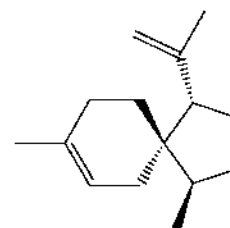
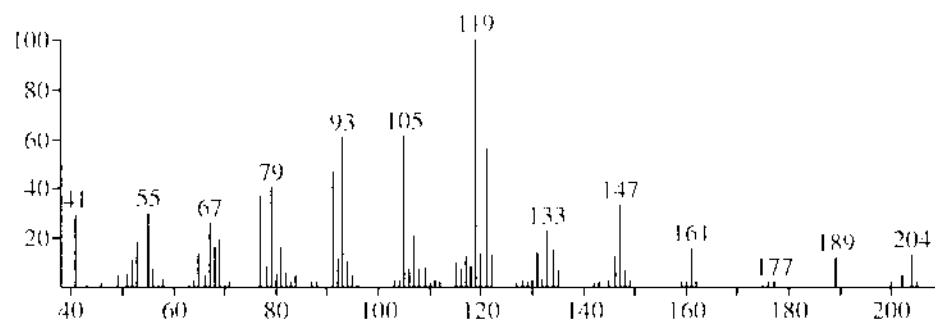
CN: spiro(4.5)dec-7-ene, 1,8-dimethyl-4-(1-methylethenyl), (1R-(1 α ,4 β ,5 β))-

Synonyms: none

Source: *Juniperus ashei* wood oil ex RP Adams #5127; 0.70% *Amyris balsamifera*,

In: Constituants inédits de l'essence de Santal Amyris, B. Corbier, et al.,

Proceedings "La Chimie des Terpenes", FR (April 24/1986); 0.49% *Acorus calamus*



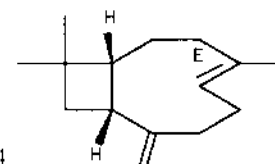
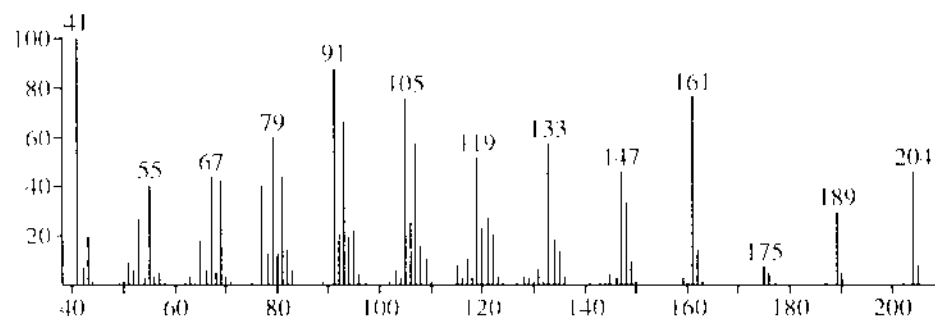
RT: 27.33 AI: 1464 KI: 1466 **Caryophyllene <9-epi-(E)>**

CAS#: 68832-35-9 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1360

CN: bicyclo[7.2.0]undec-4-ene, 4,11,11-trimethyl-8-methylene-, (1R-(1R*,4E,9R))-

Synonyms: caryophyllene, 9-epi- β -; caryophyllene, 2-epi- β -

Source: *Dacrydium cupressinum* (rimu) ex Don Clark



RT: 27.33 AI: 1464 KI: 1466 **Dodecenal <(2E)->**

CAS#: 4826-62-4 MF: C₁₂H₂₂O FW: 182 MSD LIB#: 659

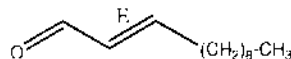
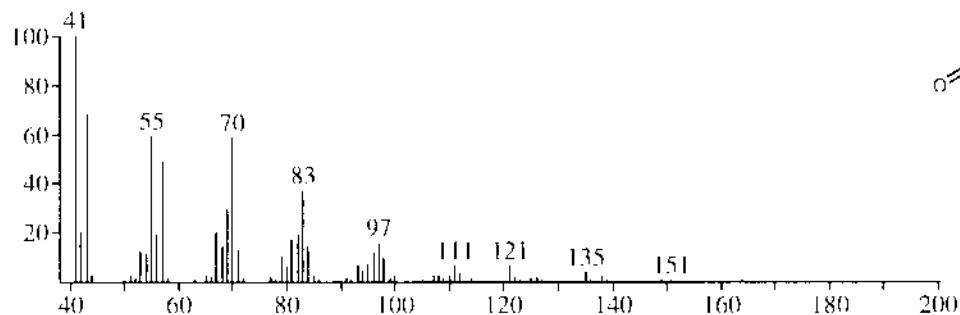
CN: 2E dodecenal

Synonyms: trans-2-dodecenal; β-octyl acrolein

Source: *Eryngium foetidum* oil ex K. C. Wong; 21.60% *Coriandrum sativum* (leaf).

J. Ag. Food Chem. 44:1824(1996); 5.50% *Coriandrum sativum* (plant);

0.44% *Coriandrum sativum* (fruit)



RT: 27.35 AI: 1465 KI: 1466 **Decalactone <γ->**

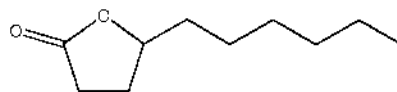
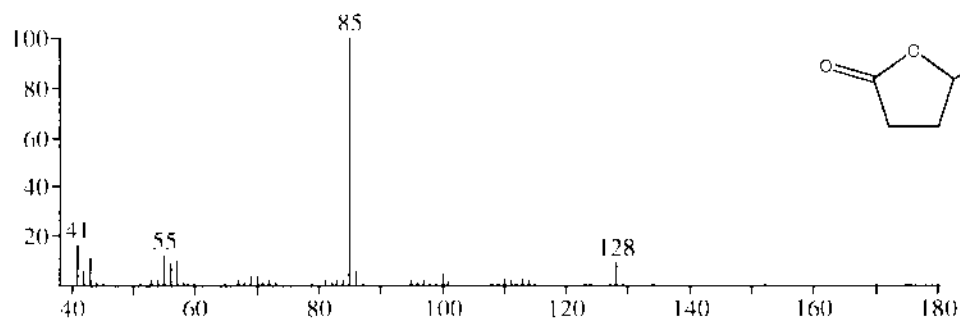
CAS#: 706-14-9 MF: C₁₀H₁₈O₂ FW: 170 MSD LIB#: 569

CN: 2(3H)-furanone, 5-hexyldihydro

Synonyms: γ-decanolide; γ-hexylbutyrolactone; 4-decanolide; 4-hexyl-4-butanolide

Source: Roth Chem. ex Keith Harkiss; 7.10% *Osmanthus fragrans* (headspace).

FEOR 2:85(1989); 5.30% *Osmanthus fragrans* (concrete); 0.61% *Daucus carota*



RT: 27.35 AI: 1465 KI: 1466 **Ishwarane**

CAS#: 26620-70-2 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 470

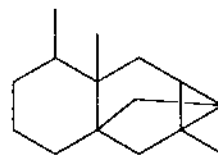
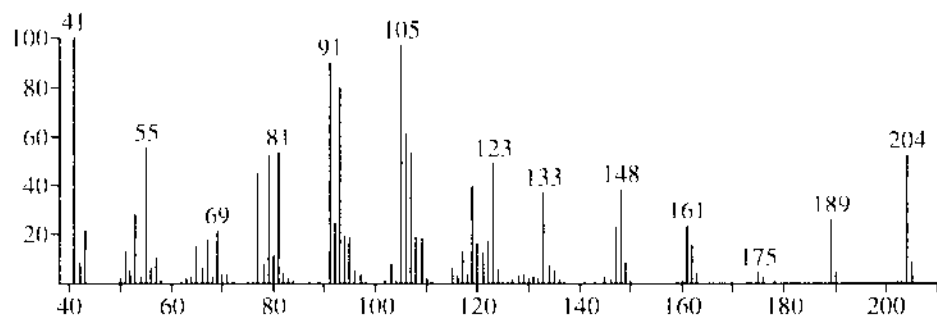
CN: 1,2a-methano-2aH-cyclopropa(b)naphthalene, decahydro-1,6,6a-trimethyl-,

(1R-(1α,1aβ,2α,6β,6aβ,7aβ))-

Synonyms: none

Source: *Corallacarpos epigaeus* ex A. Verasco-Negueruela; 0.10% *Hypericum perforatum*,

FEJ 10:365(1995)



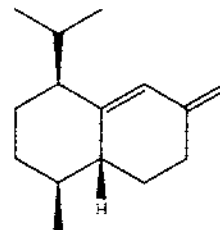
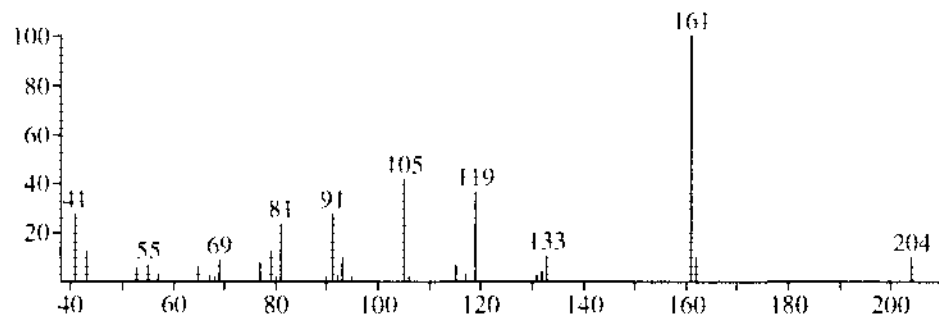
RT: 27.35 AI: 1465 KI: 1466 **Muurola-4(14),5-diene <cis->**

CAS#: 157477-72-0 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 506

CN: naphthalene, 1,2,3,4,4a,5,6,7-octahydro-4-methyl-7-methylene-1-(1-methylethyl)-, (1S,4S,4aR)-

Synonyms: none

Source: *Cupressus bakeri* leaf oil, fraction, ex Larry Cool



RT: 27.37 AI: 1465 KI: 1467 **Ethyl cinnamate <(E)->**

CAS#: 4192-77-2 MF: C₁₁H₁₂O₂ FW: 176 MSD LIB#: 667

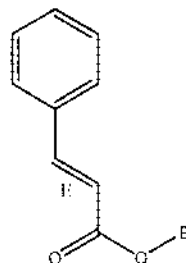
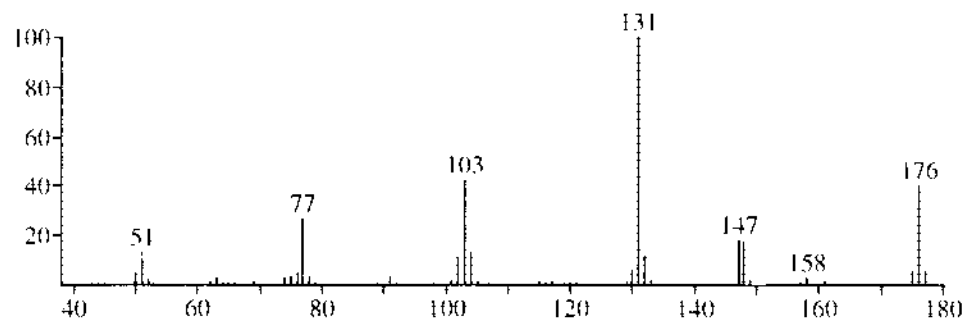
CN: 2-propenoic acid, 3-phenyl-, ethyl ester, (E)-

Synonyms: ethyl trans-cinnamate

Source: Eastman Chem., 32.79% *Elaeagnus angustifolia*, Peace Book Co.,

p. 61 in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong (1993);

16.47% *Kaempferia galanga* (rhizome); 13.98% *Artemisia judaica*



RT: 27.38 AI: 1465 KI: 1467 **Thujopsadiene <cis->**

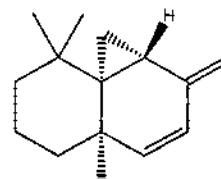
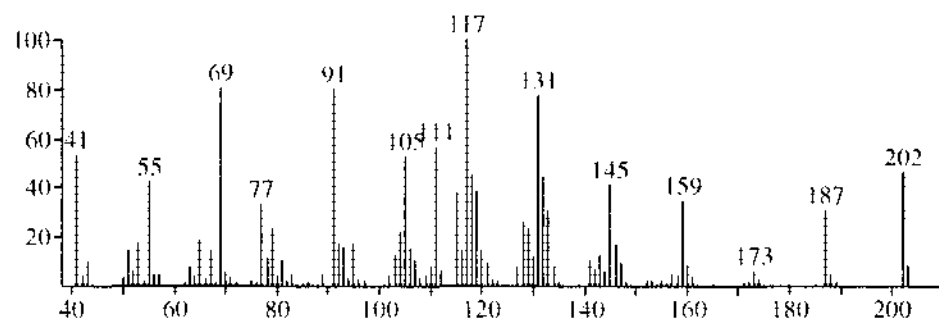
CAS#: 51446-91-4 MF: C₁₅H₂₂ FW: 202 MSD LIB#: 850

CN: cyclopropat(d)naphthalene, 1,1a,2,4a,5,6,7,8-octahydro-4a,8,8-trimethyl-2-methylene-, (1aα,4aβ,8aR*)-

Synonyms: none

Source: *Widdringtonia whytei* wood oil ex AB Wood;

7.10% *Widdringtonia whytei*, FEJ 3:105 (1988)



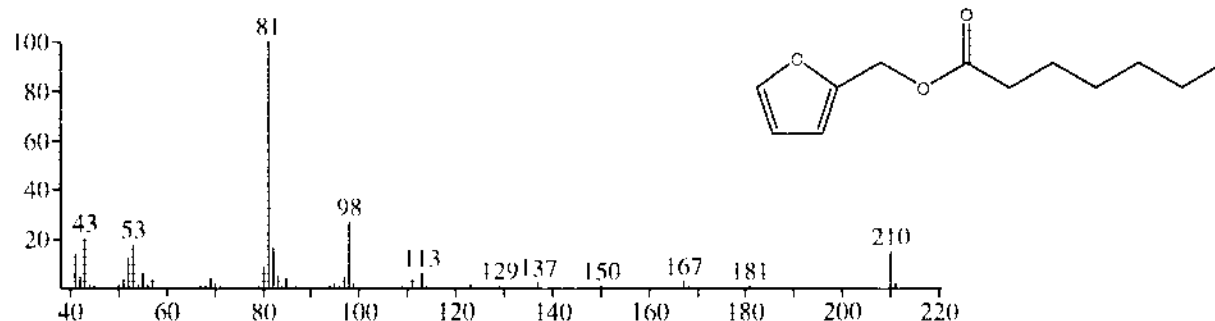
RT: 27.42 AI: 1466 KI: 1468 **Furfuryl heptanoate**

CAS#: 39481-28-2 MF: C₁₂H₁₈O₃ FW: 210 MSD LIB#: 85

CN: heptanoic acid, 2-furanylmethyl ester

Synonyms: none

Source: Aldrich Chem.



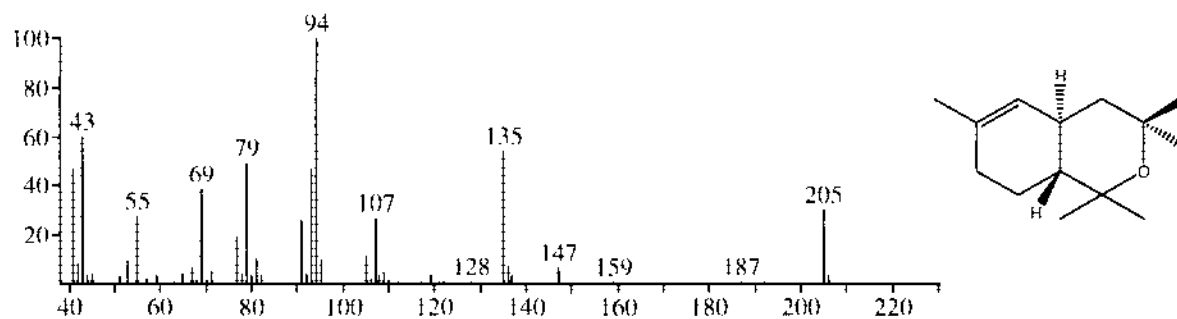
RT: 27.43 AI: 1466 KI: 1468 **Cabreuva oxide C**

CAS#: 107602-55-1 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 340

CN: 1H-benzopyran, 3-ethenyl-3,4,4a,7,8,8a-hexahydro-1,1,3,6-tetramethyl-, (3S-(3 α ,4 α ,8 α))-

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl; 0.10% *Baccharis dracunculifolia* FFJ 11:15(1996)



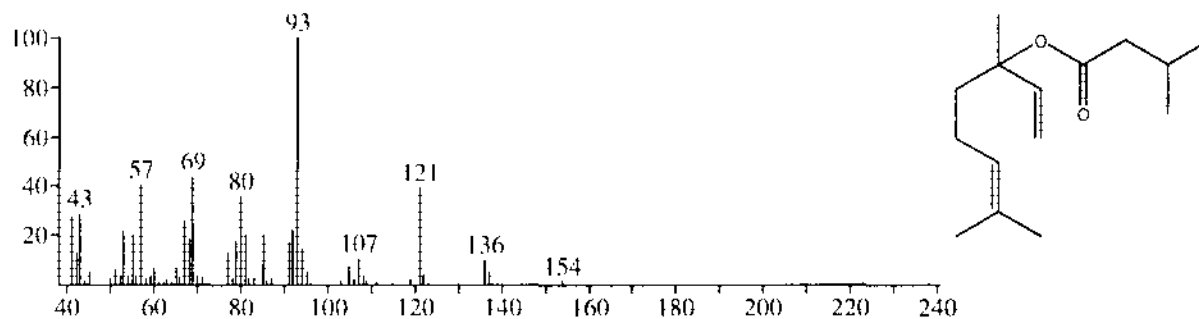
RT: 27.43 AI: 1466 KI: 1468 **Linalool isovalerate**

CAS#: 1118-27-0 MF: C₁₅H₂₆O₂ FW: 238 MSD LIB#: 1633

CN: butanoic acid, 3-methyl-, 1-ethenyl-1,5-dimethyl-4-hexenyl ester

Synonyms: none

Source: Aldrich Chem.



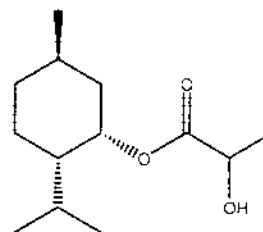
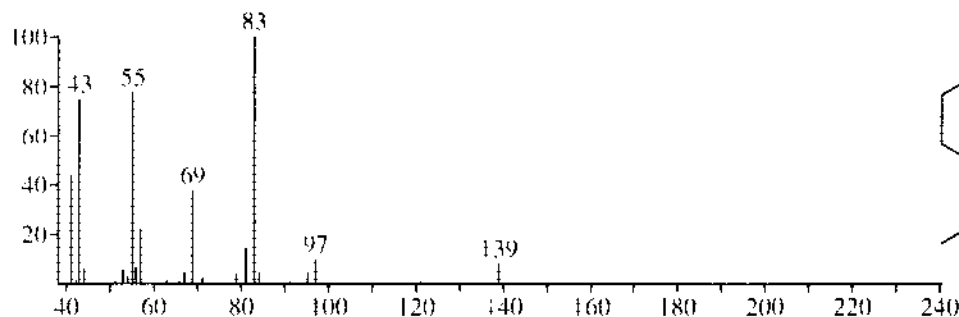
RT: 27.44 AI: 1467 KE: 1469 **Menthyl lactate <neo>**

CAS#: 000-00-0 ME: C₁₃H₂₄O₃ FW: 228 MSD LIB#: 1082

CN: not assigned

Synonyms: frescolate

Source: H & R Chem. ex Jian-Qin Cu, Kunming



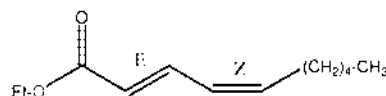
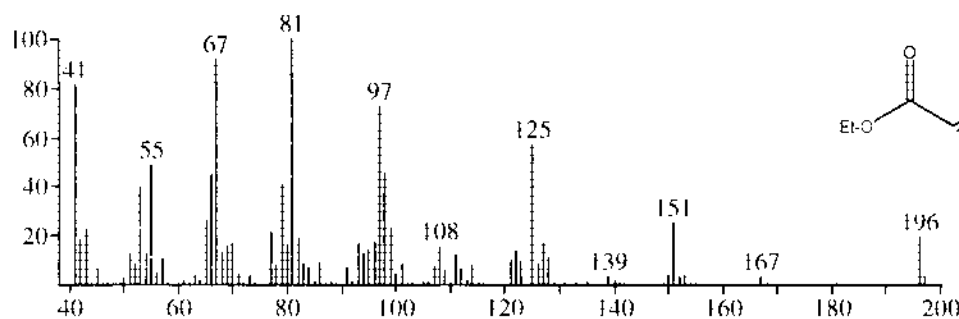
RT: 27.45 AI: 1467 KE: 1469 **Ethyl-(2E,4Z)-decadienoate**

CAS#: 3025-30-7 ME: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 685

CN: deca-2E,4Z-dienoic acid, ethyl ester

Synonyms: none

Source: Bedoukian Res. ex Art Tucker



RT: 27.50 AI: 1468 KE: 1470 **Pinchotene acetate**

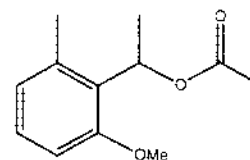
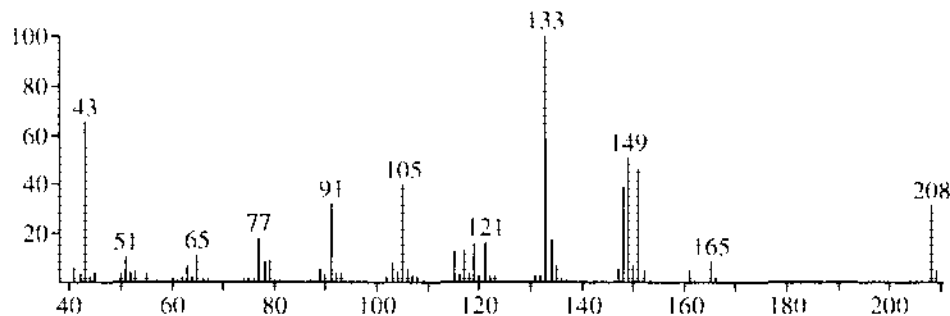
CAS#: 000-00-0 ME: C₁₂H₁₆O₃ FW: 208 MSD LIB#: 2090

CN: 1-acetoxy-1-(2-methoxy-6-methylphenyl) ethane

Synonyms: none

Source: *Juniperus coahuilensis* v. *arizonica* oil, RP Adams #7637.

Identified by NMR by Vasu Dev



RT: 27.52 AI: 1469 KI: 1470 **Acoradiene <β>**

CAS#: 28477-64-7 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 282

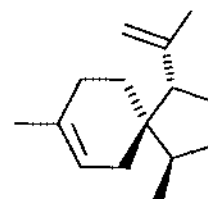
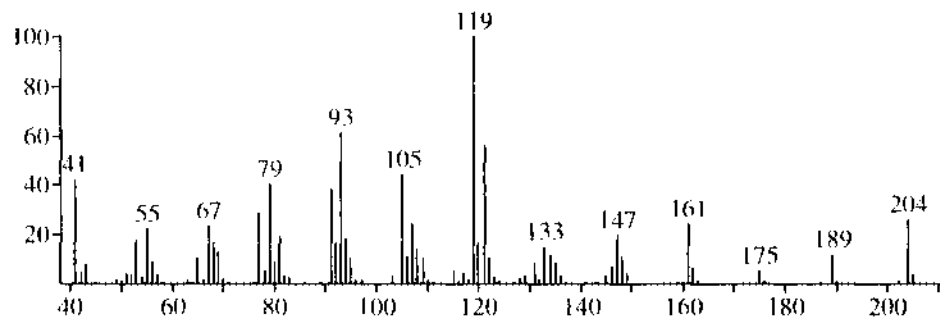
CN: spiro(4.5)dec-7-ene, 1,8-dimethyl-4-(1-methylethenyl)-, (1R-(1α,4β,5α))-

Synonyms: none

Source: *Widdringtonia* wood oil ex A.B. Wood; 1.00% *Amyris balsamifera*.

In: Constituants inédits de l'essence de Santal Amyris, B. Corbier, et al.,

Proceedings "La Chimie des Terpenes", FR (April 24/1986); 0.51% *Acorus calamus*



RT: 27.52 AI: 1469 KI: 1470 **Dodecanol <n>**

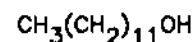
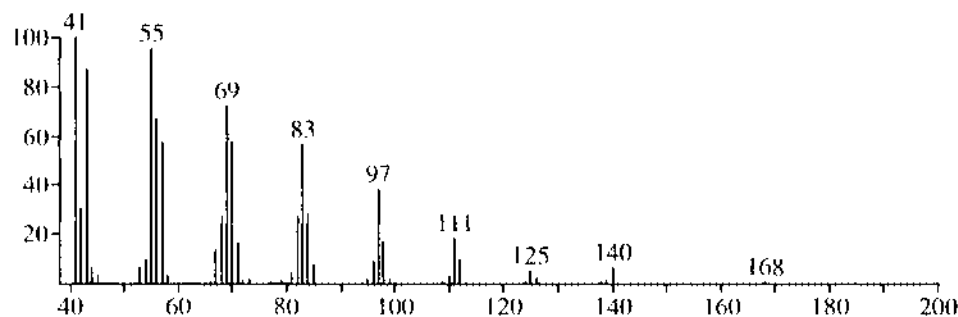
CAS#: 112-53-8 MF: C₁₂H₂₆O FW: 186 MSD LIB#: 27

CN: dodecanol

Synonyms: lauryl alcohol, dodecyl alcohol

Source: Alcohol mix ex Lawrence Hogge; 5.00% *Hypericum perforatum*.

JHRC & CC 5:182(1982); 4.50% *Viola odorata* (leaf); 4.00% *Polygonum minus*



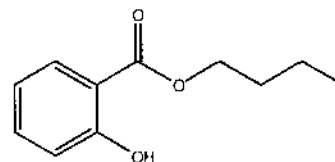
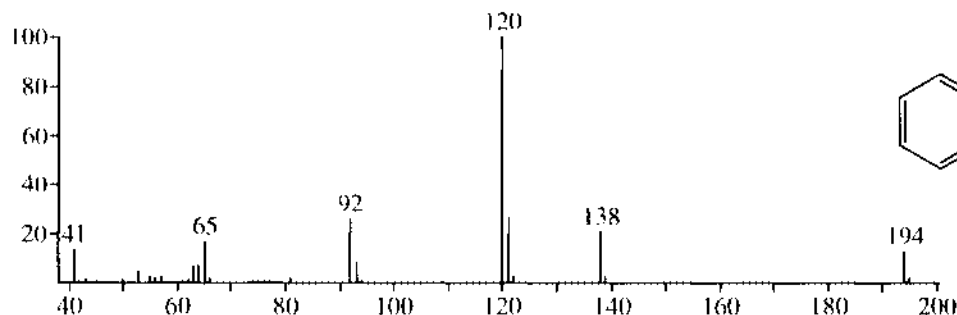
RT: 27.54 AI: 1469 KI: 1471 **Salicylic acid, butyl ester**

CAS#: 2052-14-4 MF: C₁₁H₁₄O₃ FW: 194 MSD LIB#: 1372

CN: benzoic acid, 2-hydroxy-, butyl ester

Synonyms: butyl salicylate

Source: Pfaltz & Bauer ex Art Tucker



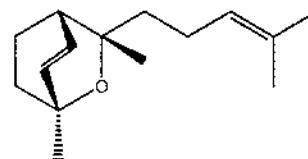
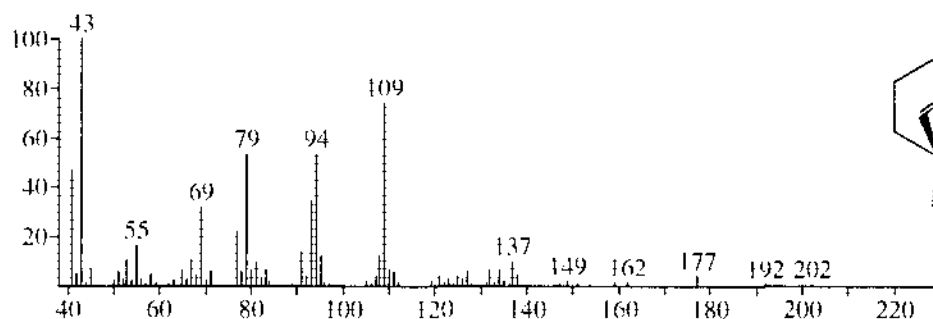
RT: 27.54 AI: 1469 KI: 1471 **Sesquicineole <dehydro->**

CAS#: 211237-38-6 MF: C₁₅ H₂₄ O FW: 220 MSD LIB#: 1408

CN: 2-oxabicyclo(2.2.2)oct-5-ene, 1,3-dimethyl-3-(4-methyl-3-pentenyl)-, (1R,3S,4S)-

Synonyms: dehydrosesquicineole

Source: ref. cpd. ex P. Weyerstahl



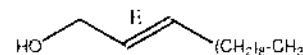
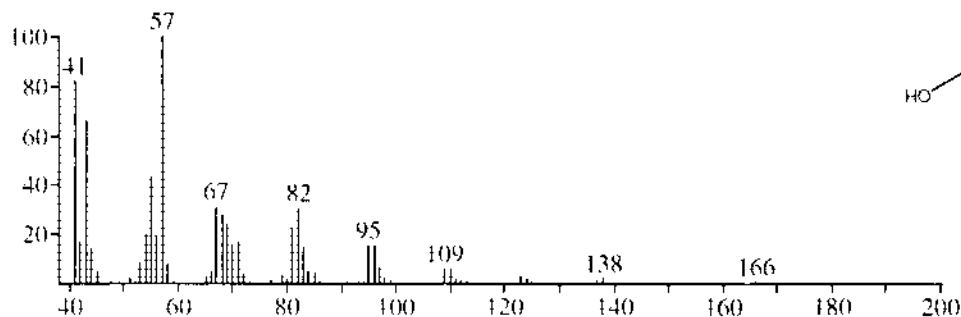
RT: 27.55 AI: 1469 KI: 1471 **Dodecen-1-ol <(2E)->**

CAS#: 69064-37-5 MF: C₁₂ H₂₄ O FW: 184 MSD LIB#: 585

CN: 2-dodecen-1-ol, (E)-

Synonyms: none

Source: Bedoukian Res. ex Art Tucker



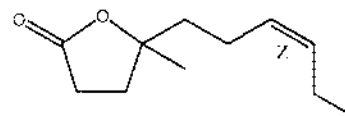
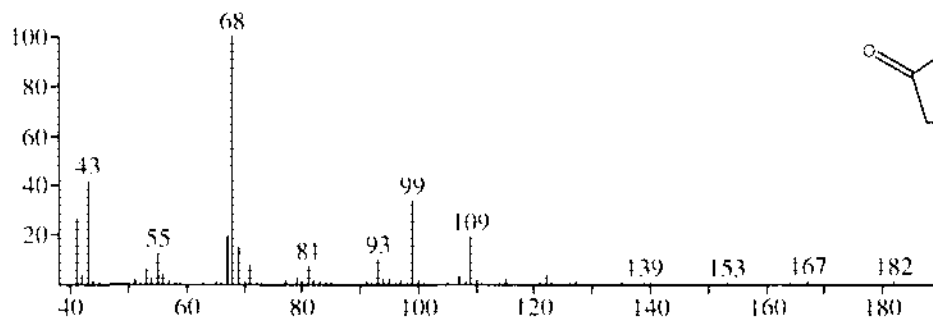
RT: 27.56 AI: 1470 KI: 1471 **Jasmone lactone <(3Z)->**

CAS#: 70851-61-5 MF: C₁₁ H₁₈ O₂ FW: 182 MSD LIB#: 2034

CN: 2(3H)-furanone, 5-(3Z)-3-hexenyldihydro-5-methyl-

Synonyms: none

Source: Bedoukian Res.



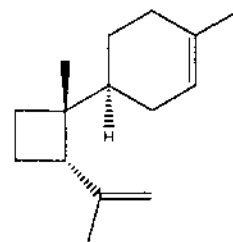
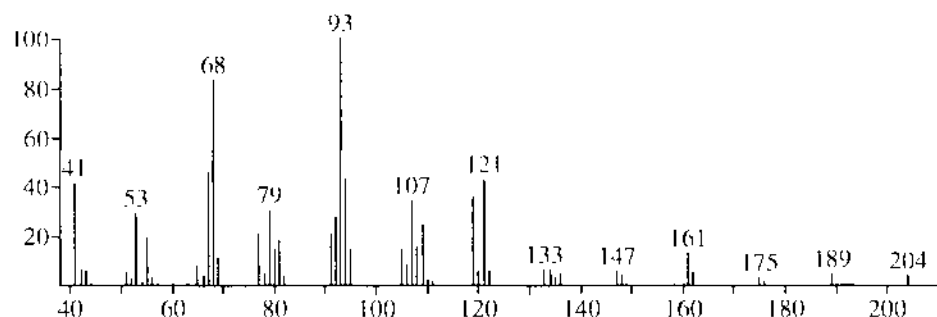
RT: 27.57 AI: 1470 KI: 1472 **Cumacrene**

CAS#: 847374-84-9 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 2194

CN: cyclohexene, 1-methyl-4-[(1R,2S)-1-methyl-2-(1-methylethenyl)cyclobutyl]-, (4S)-

Synonyms: none

Source: *Cupressus macrocarpa* leaf oil ex Larry Cool



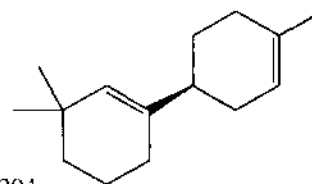
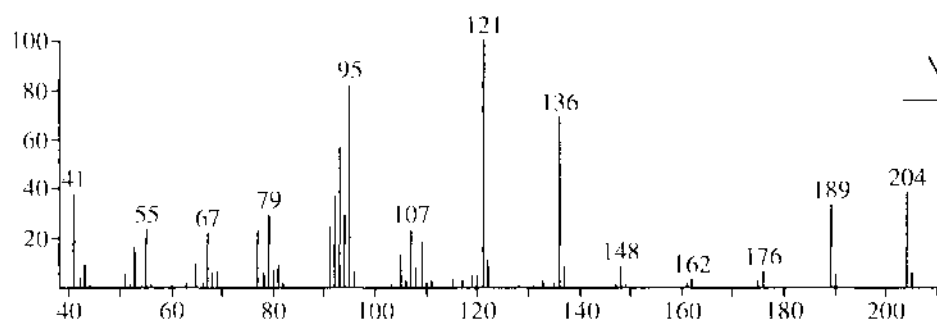
RT: 27.59 AI: 1470 KI: 1472 **Macrocarpene <a>**

CAS#: 847374-79-2 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1918

CN: cyclohexene, 3,3-dimethyl-1-[(1S)-4-methyl-3-cyclohexen-1-yl]-

Synonyms: none

Source: *Cupressus macrocarpa* leaf oil ex Larry Cool



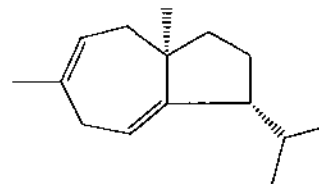
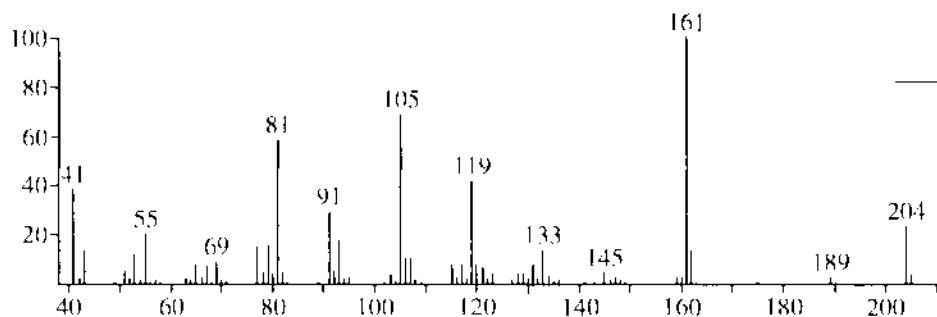
RT: 27.60 AI: 1471 KI: 1472 **Dauca-5,8-diene**

CAS#: 142928-08-3 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1573

CN: azulene, 1,2,3,3a,4,7-hexahydro-3a,6-dimethyl-1-(1-methylethyl)-, (1R,3aR)-

Synonyms: carota-1,4-diene

Source: *Rosa rugosa* oil ex Art Tucker



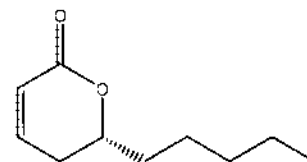
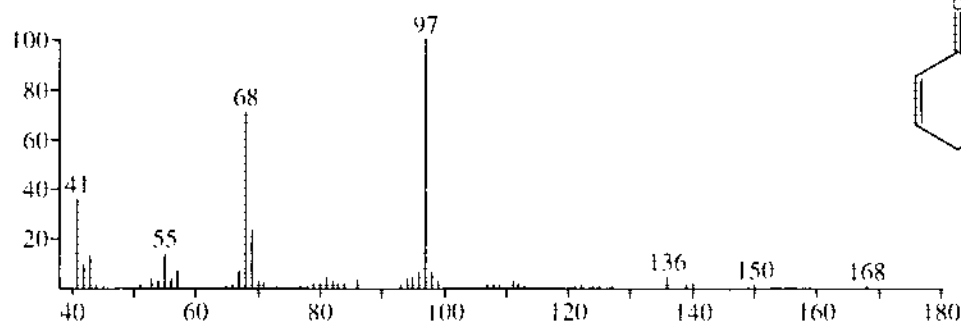
RT: 27.60 AI: 1471 KI: 1472 **Massoia lactone**

CAS#: 51154-96-2 MF: C₁₀H₁₆O₂ FW: 168 MSD LIB#: 1799

CN: 2H-pyran-2-one, 5,6-dihydro-6-pentyl- (6R)-

Synonyms: Massiolactone, massoia decalactone

Source: ref. cpd. ex Ian Southwell



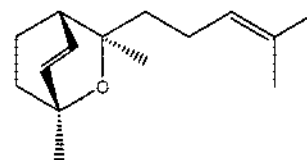
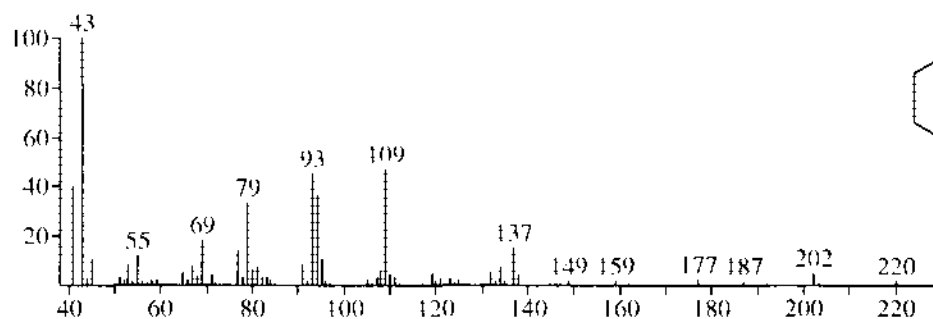
RT: 27.62 AI: 1471 KI: 1473 **Sesquicineole <7-epi-1,2-dehydro->**

CAS#: 149067-90-3 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1346

CN: 2-oxabicyclo[2.2.2]oct-5-ene, 1,3-dimethyl-3-(4-methyl-3-pentenyl)-, (1R,3S,4S)-

Synonyms: none

Source: *Prangos uechtritzi* oil ex Husnu Baser



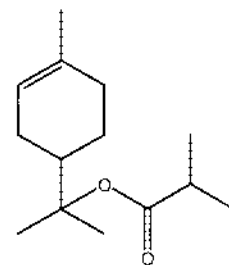
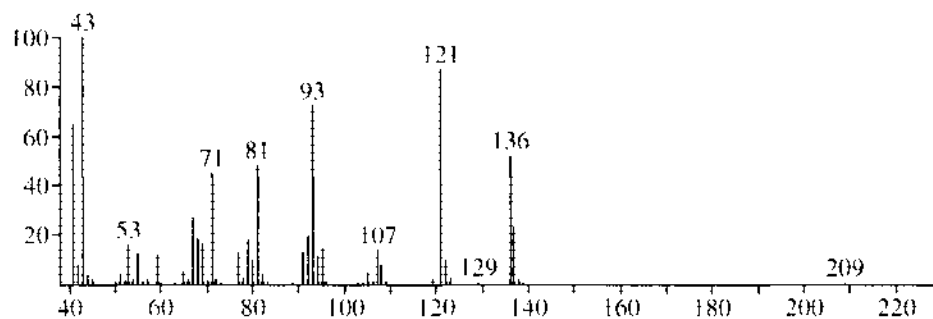
RT: 27.62 AI: 1471 KI: 1473 **Terpinyl isobutanoate <α->**

CAS#: 7774-65-4 MF: C₁₄H₂₄O₂ FW: 224 MSD LIB#: 1473

CN: propanoic acid, 2-methyl-, 1-methyl-1-(4-methyl-3-cyclohexen-1-yl) ethylester

Synonyms: terpinyl isobutyrate, α-

Source: Pfaltz & Bauer ex Art Tucker



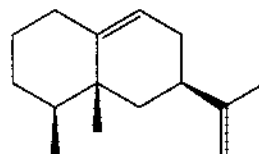
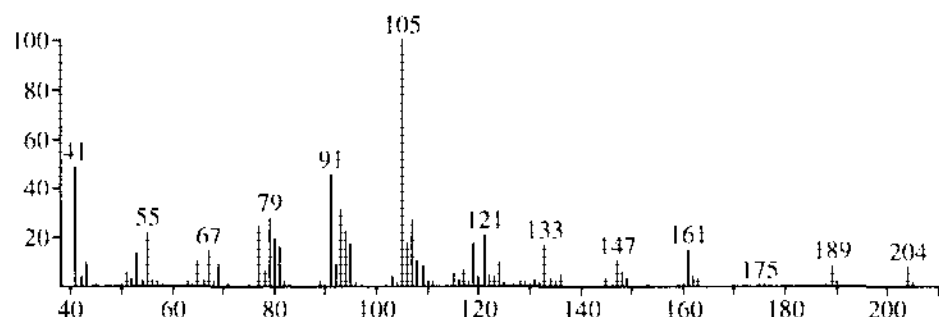
RT: 27.63 AE: 1471 KE: 1473 **Aristolochene <4,5-di-epi->**

CAS#: 54868-40-5 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 2168

CN: naphthalene, 1,2,3,4,6,7,8,8a-octahydro-1,8a-dimethyl-7-(1-methylethenyl)-

Synonyms: cremophiladiene, 9,11-

Source: Resin Ladano ex C. Harvala, Athens



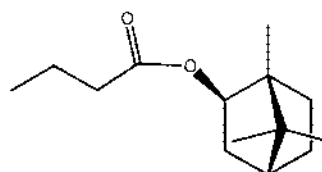
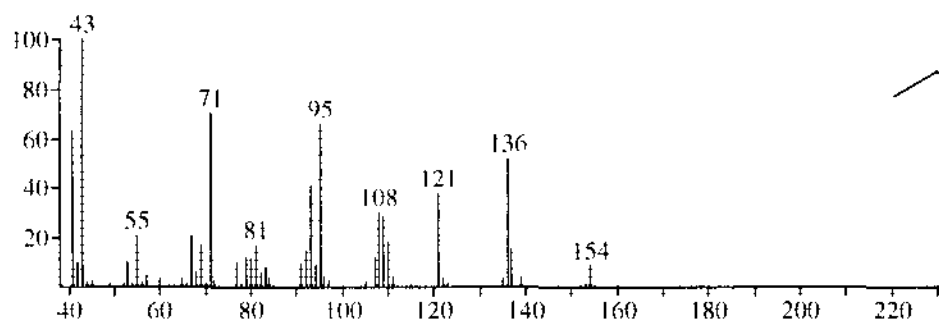
RT: 27.72 AE: 1473 KE: 1475 **Isobornyl n-butanate**

CAS#: 107910-89-4 MF: C₁₄H₂₄O₂ FW: 224 MSD LIB#: 1445

CN: butanoic acid, 1,7,7-trimethylbicyclo(2.2.1)hept-2-yl ester, (1R-exo)-

Synonyms: isoborneol butyrate

Source: *Strobilanthes auriculatus* oil ex P. Weyerstahl



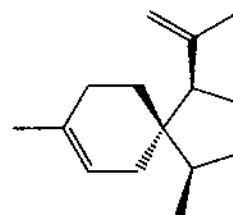
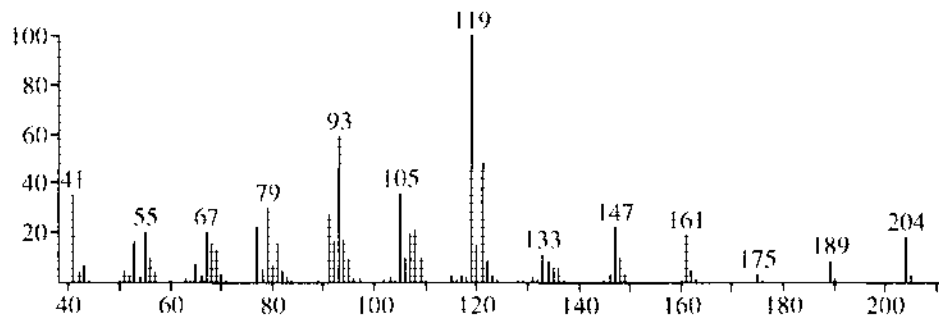
RT: 27.73 AE: 1474 KE: 1475 **Acoradiene <10-epi-β->**

CAS#: 729602-94-2 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1924

CN: spiro(4.5)dec-7-ene, 1,8-dimethyl-4-(1-methylethenyl)-, (1R,4R,5S)-

Synonyms: none

Source: *Cupressus macrocarpa* leaf oil ex Larry Cool



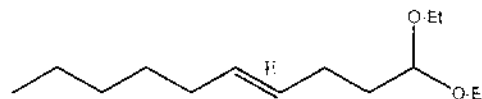
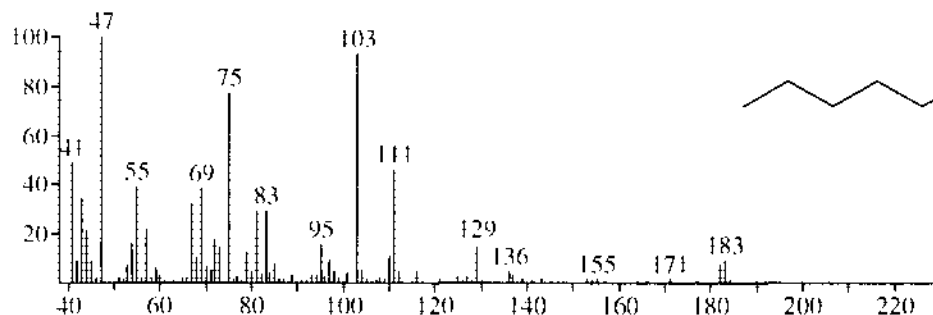
RT: 27.73 AI: 1474 KI: 1475 **Decenal <(4E)->, diethyl acetal**

CAS#: 000-00-0 MF: C₁₄H₂₈O₂ FW: 228 MSD LIB#: 580

CN: 4-decene, 1,1-diethoxy-, (4E)-

Synonyms: none

Source: Bedoukian Res. ex Art Tucker



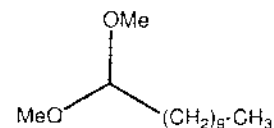
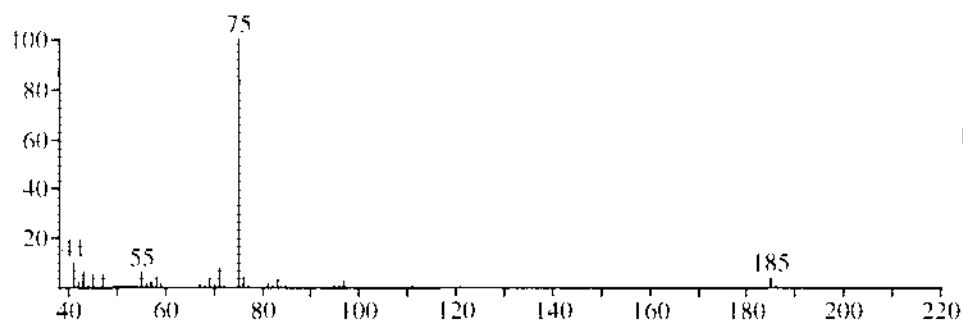
RT: 27.73 AI: 1474 KI: 1475 **Undecanal, dimethyl acetal**

CAS#: 52517-67-6 MF: C₁₃H₂₈O₂ FW: 216 MSD LIB#: 2114

CN: undecane, 1,1-dimethoxy-

Synonyms: none

Source: Bedoukian Res.



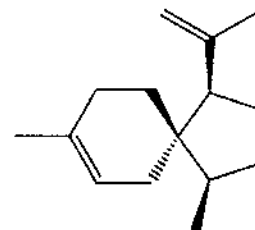
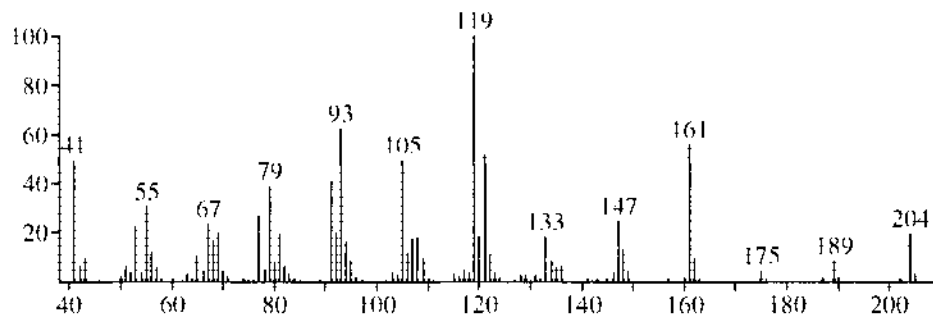
RT: 27.75 AI: 1474 KI: 1476 **Neocallitropsene <α->**

CAS#: 90025-12-0 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1871

CN: spiro(4.5)dec-7-ene, 1,8-dimethyl-4-(1-methylethenyl)-, (1α,4α,5β)-

Synonyms: none

Source: *Bazzania trilobata* oil ex. W. Koenig



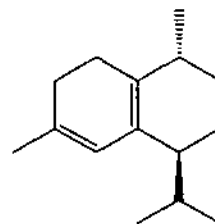
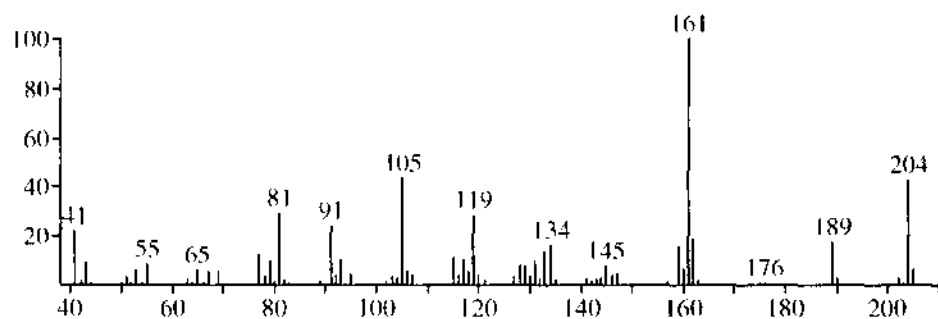
RT: 27.77 AI: 1475 KI: 1476 **Cadina-1(6),4-diene <trans->**

CAS#: 20085-11-4 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1052

CN: naphthalene, 1,2,3,4,5,6-hexahydro-4,7-dimethyl-1-(1-methylethyl)-, (1S-trans)-

Synonyms: 10- β -cadina-1(6),4-diene

Source: Manuka oil ex W. Koenig



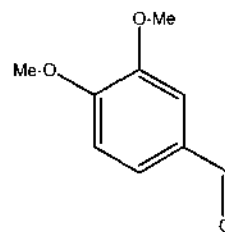
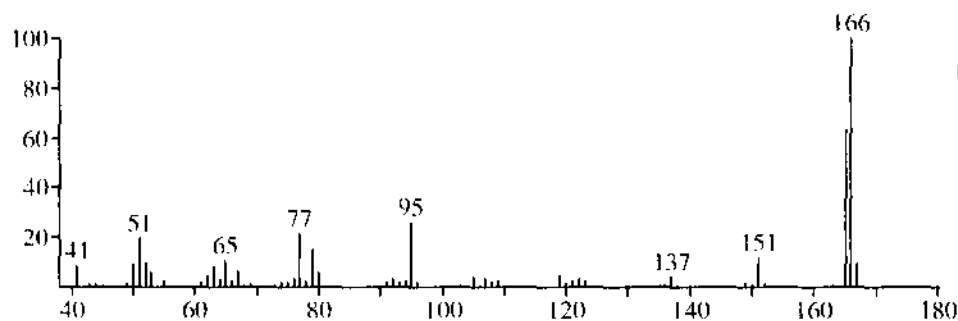
RT: 27.78 AI: 1475 KI: 1476 **Methyl vanillin**

CAS#: 120-14-9 MF: C₉H₁₀O₃ FW: 166 MSD LIB#: 1833

CN: benzaldehyde, 3,4-dimethoxy-

Synonyms: none

Source: ref. cpd. ex Ian Southwell



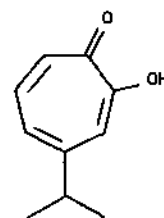
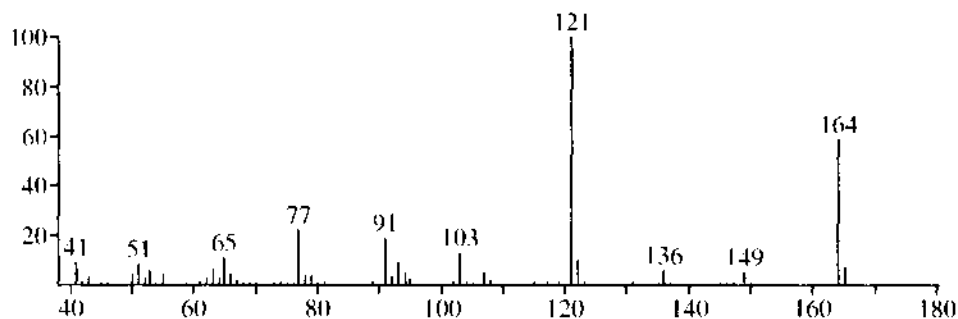
RT: 27.79 AI: 1475 KI: 1477 **Thujaplicin <β->**

CAS#: 499-44-5 MF: C₁₀H₁₂O₂ FW: 164 MSD LIB#: 1493

CN: 2,4,6-cycloheptatrien-1-one, 2-hydroxy-4-(1-methylethyl)-

Synonyms: none

Source: Fluka ex E. von Rudloff



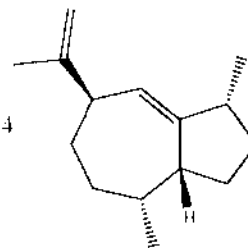
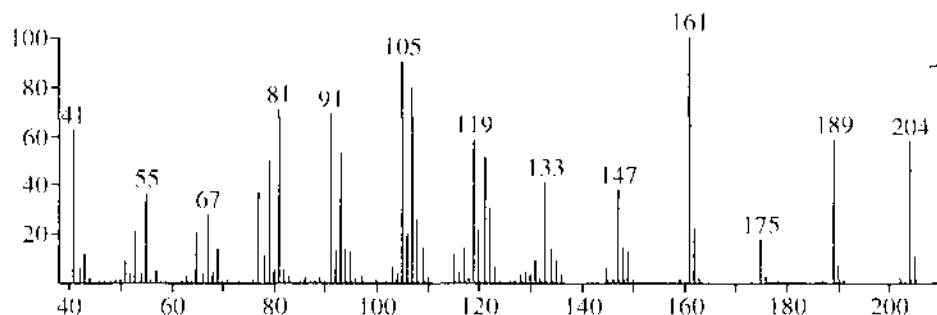
RT: 27.80 AI: 1475 KI: 1477 **Gurjunene < γ >**

CAS#: 22567-17-5 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 762

CN: azulene, 1,2,3,3a,4,5,6,7-octahydro-1,4-dimethyl-7-(1-methylethenyl)-, (1R-(1 α ,3 $\alpha\beta$,4 α ,7 β))

Synonyms: none

Source: Fluka ex H. Hills; 2.17% *Laurus nobilis* (fruit), Parfum. Kosmet. 73:854(1992);
1.50% *Alpinia chinensis*; 1.15% *Daniellia oliveri*



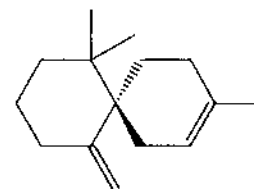
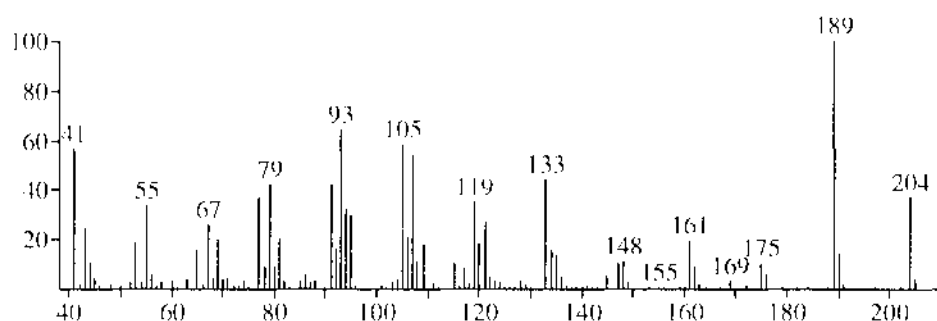
RT: 27.82 AI: 1476 KI: 1477 **Chamigrene < β >**

CAS#: 18431-82-8 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 943

CN: spiro(5.5)undec-2-ene, 3,7,7-trimethyl-11-methylene-, (R)-

Synonyms: none

Source: *Juniperus recurva* wood oil J. Oda, Ag. Biol. Chem. 41:201(1977);
3.60% *Zingiber zerumbet* (stem), JBOR 7:153(1995); 2.90% *Piper hancei*;
2.84% *Ocimum gratissimum*



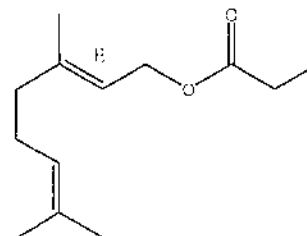
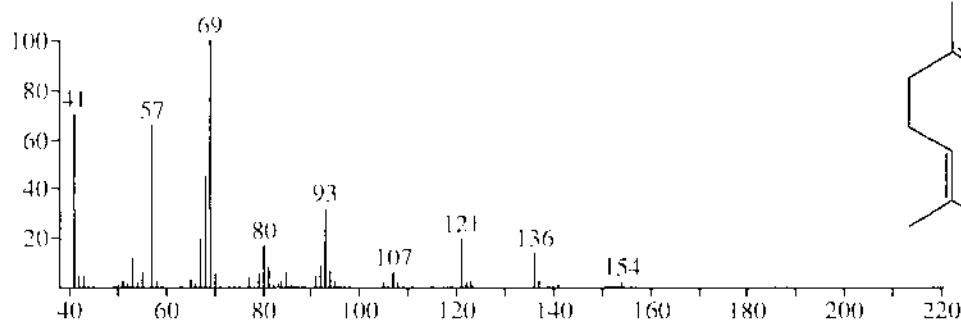
RT: 27.82 AI: 1476 KI: 1477 **Geranyl propanoate**

CAS#: 105-90-8 MF: C₁₃H₂₂O₂ FW: 210 MSD LIB#: 741

CN: 2,6-octadien-1-ol, 3,7-dimethyl-, propanoate, (E)-

Synonyms: none

Source: Geranium absolute, ex Firmenich ex AF Thomas; 2.19% *Pelargonium graveolens*,
Rivista Ital. EPPOS 631(1992); 2.08% *Artemisia absinthum*



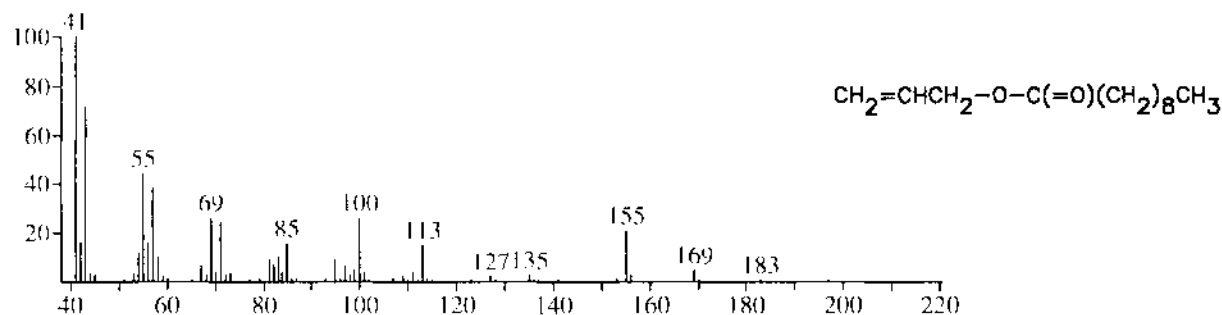
RT: 27.84 AI: 1476 KI: 1478 **Allyl decanoate**

CAS#: 57856-81-2 MF: C₁₃H₂₄O₂ FW: 212 MSD LIB#: 109

CN: decanoic acid, 2-propenyl ester

Synonyms: allyl caprate

Source: Ref. cpd. ex Art Tucker



RT: 27.84 AI: 1476 KI: 1478 **Pentyl benzoate**

CAS#: 2049-96-9 MF: C₁₂H₁₆O₂ FW: 192 MSD LIB#: 279

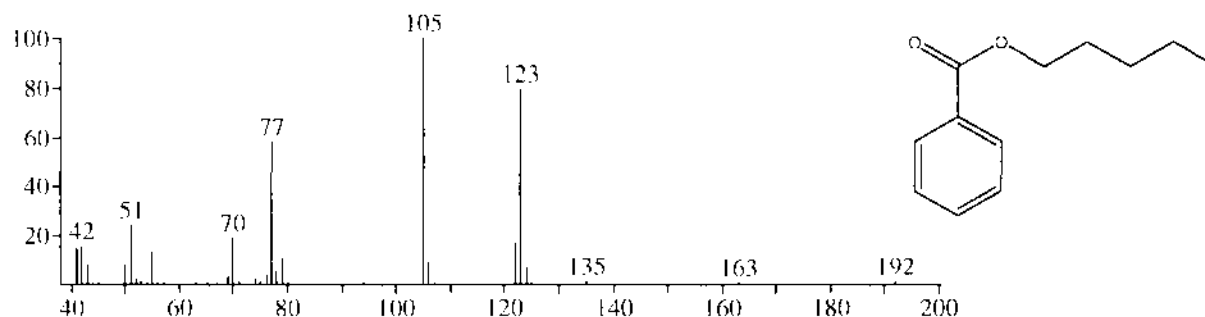
CN: benzoic acid, pentyl ester

Synonyms: amyl benzoate

Source: ref. cpd. ex H. DePooter; 0.33% *Hedychium coronarium*,

p. 102, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong (1993)

0.32% *Osmanthus fragrans*; 0.10% *Narcissus tazetta*



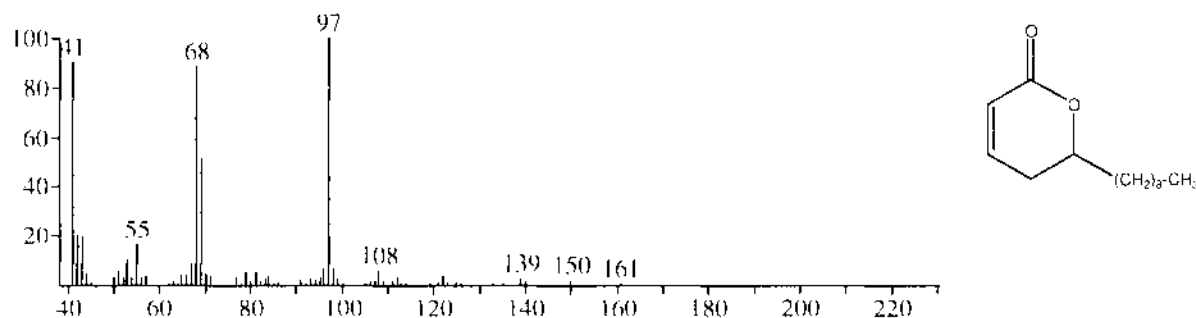
RT: 27.89 AI: 1477 KI: 1479 **Pyran-2-one <6-nonyl-5,6-dihydro-2H->**

CAS#: 118663-83-5 MF: C₁₃H₂₄O₂ FW: 224 MSD LIB#: 1713

CN: 2H-pyran-2-one, 5,6-dihydro-6-nonyl-

Synonyms: none

Source: Aldrich Chem.



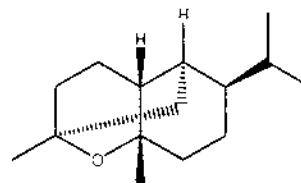
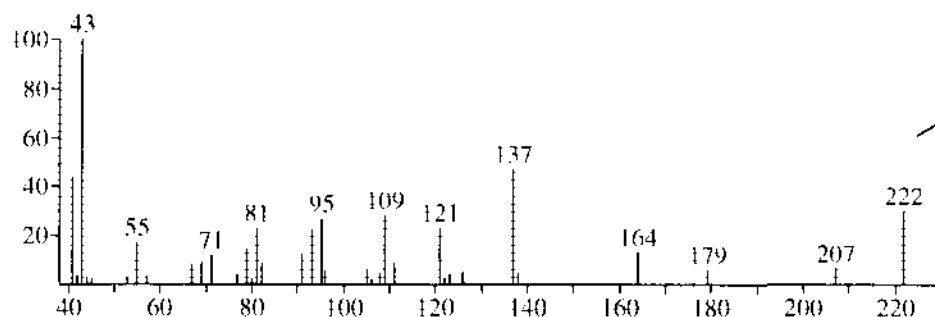
RT: 27.91 AE: 1478 KI: 1479 **Amorphane <trans-4,10-epoxy->**

CAS#: 70470-08-5 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 126

CN: 2,5-methano-2H-1-benzopyran, octahydro-2,8a-dimethyl-6-(1-methylethyl)-, (2 α ,4 β ,5 α ,6 α ,8 α β)-

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl



RT: 27.91 AE: 1478 KI: 1479 **Muurolene < γ ->**

CAS#: 30021-74-0 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1342

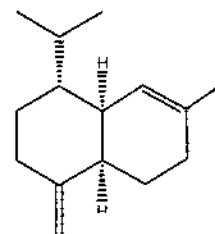
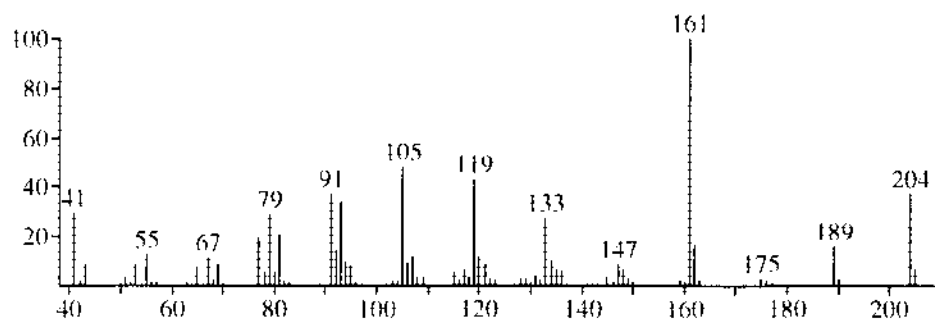
CN: naphthalene, 1,2,3,4,4a,5,6,8a-octahydro-7-methyl-4-methylene-1-(1-methylethyl)-, (1 α ,4 α ,8 α)-

Synonyms: none

Source: Port Oxford Cedar (*Chamaecyparis lawsonia*) oil ex CA McDaniel;

31.90% *Santolina neapolitana*, FEJ 9:77(1994); 21.45% *Pterodon polygalaeiflorus*;

19.82% *Cananga odorata*



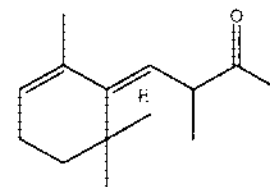
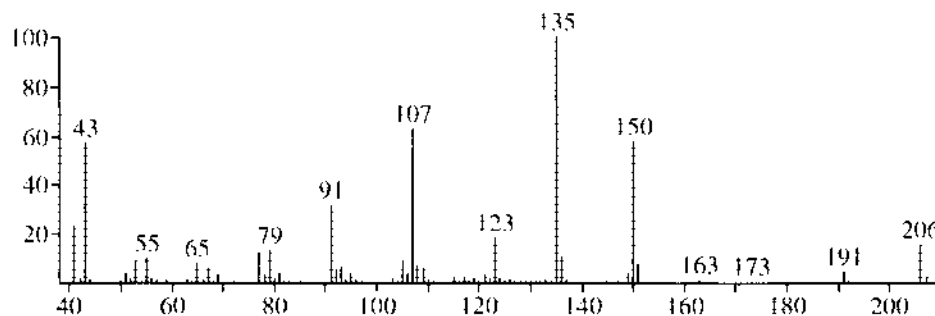
RT: 27.92 AE: 1478 KI: 1479 **Ionone <isomethyl- α -(E)->**

CAS#: 55093-42-0 MF: C₁₄H₂₂O FW: 206 MSD LIB#: 2036

CN: 3-buten-2-one, 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-, (E)-

Synonyms: isomethyl- α -ionone, cetone(α ->

Source: Bedoukian Res.



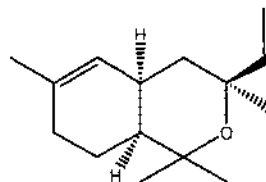
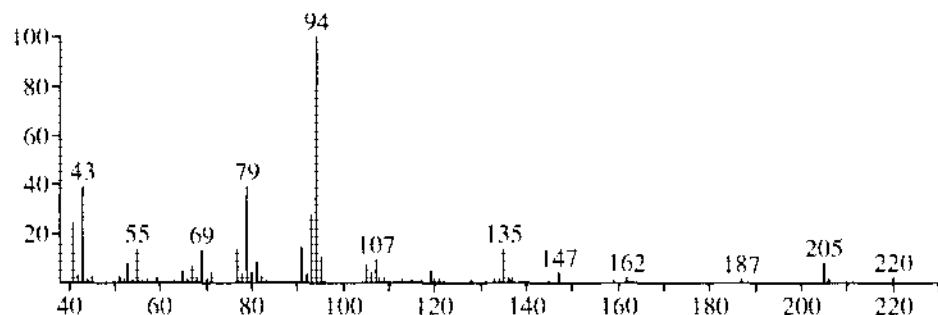
RT: 27.94 AE: 1479 KI: 1480 **Cabreuva oxide D**

CAS#: 107602-52-8 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 341

CN: 1H-2-benzopyran, 3-ethenyl-3,4,4a,7,8,8a-hexahydro-1,1,3,6-tetramethyl-, (3S-(3 α ,4 α ,8 α))-

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl: 0.40% *Baccharis dracunculifolia*, FIJ 11:15(1996)



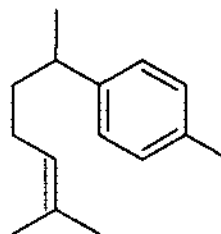
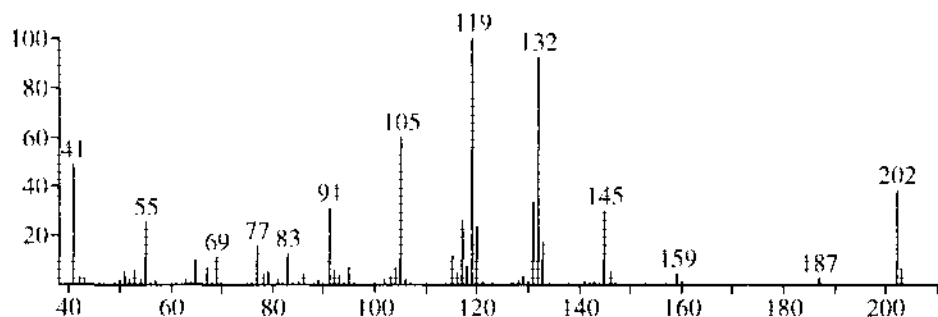
RT: 27.96 AE: 1479 KI: 1480 **Curcumene <ar->**

CAS#: 644-30-4 MF: C₁₅H₂₂ FW: 202 MSD LIB#: 1379

CN: benzene, 1-(1,5-dimethyl-4-hexenyl)-4-methyl-

Synonyms: α -curcumene

Source: Sandalwood oil ex Brian Lawrence: 41.40% *Curcuma xanthorrhiza*, FIJ 7:19(1992); 27.84% *Curcuma angustifolia*; 27.10% *Zingiber officinale*



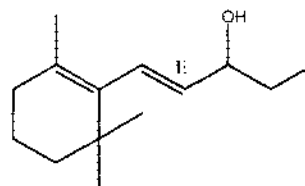
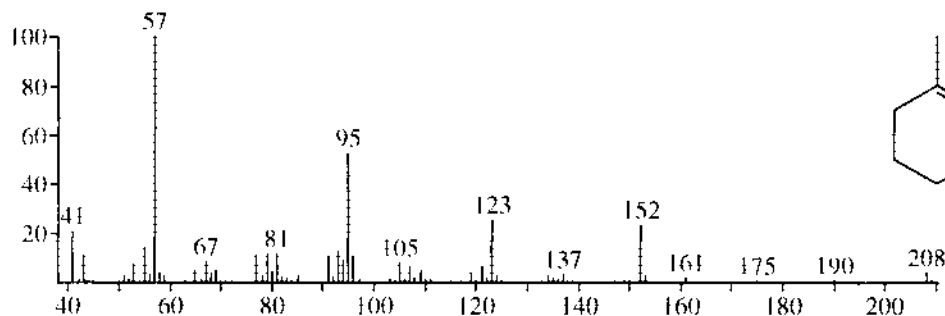
RT: 27.96 AE: 1479 KI: 1480 **Ionol <methyl- β -(E)->**

CAS#: 436099-48-8 MF: C₁₄H₂₄O FW: 208 MSD LIB#: 2123

CN: 1-penten-3-ol, 1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-, (1E)-

Synonyms: none

Source: Bedoukian Res.



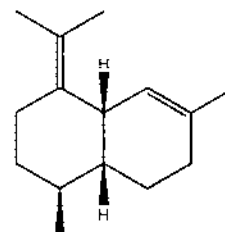
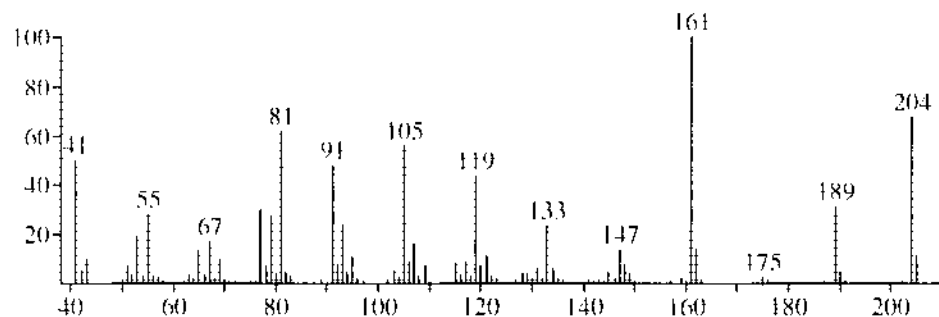
RT: 27.97 AE: 1479 KI: 1481 **Amorpha-4,7(11)-diene**

CAS#: 486998-53-2 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1899

CN: naphthalene, 1,2,3,4,4a,5,6,8a-octahydro-4,7-dimethyl-1-(1-methylethylidene)-, (4S,4aR,8aS)-

Synonyms: none

Source: Maque oil ex Winfried Koenig



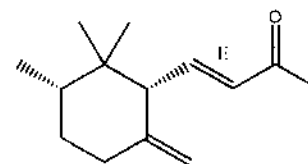
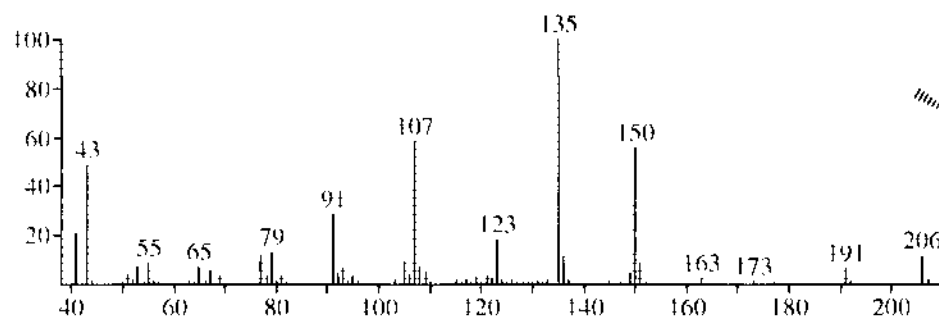
RT: 28.00 AE: 1480 KI: 1481 **Ionone <methyl-γ>**

CAS#: 101325-32-0 MF: C₁₄H₂₂O FW: 206 MSD LIB#: 845

CN: 3-buten-2-one, 4-(2,2-dimethyl-6-methylenecyclohexyl)-, nonomethyl deriv.

Synonyms: γ-ionone

Source: K & K Chem. ex H. Hills



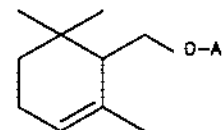
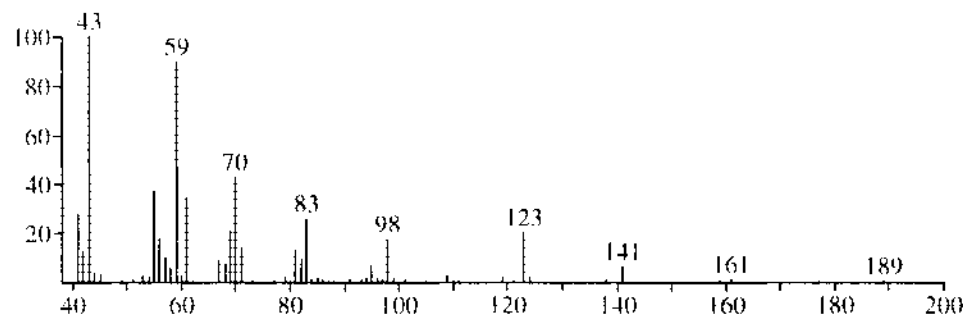
RT: 28.02 AE: 1480 KI: 1482 **Cyclogeranyl acetate <α>**

CAS#: 69842-11-1 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 531

CN: 2-cyclohexene-1-methanol, 2,6,6-trimethyl-, acetate

Synonyms: cyclogeraniol acetate<α>

Source: acetylation of α-cyclogeraniol(6110)



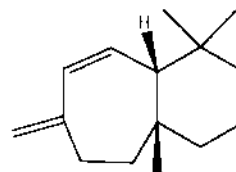
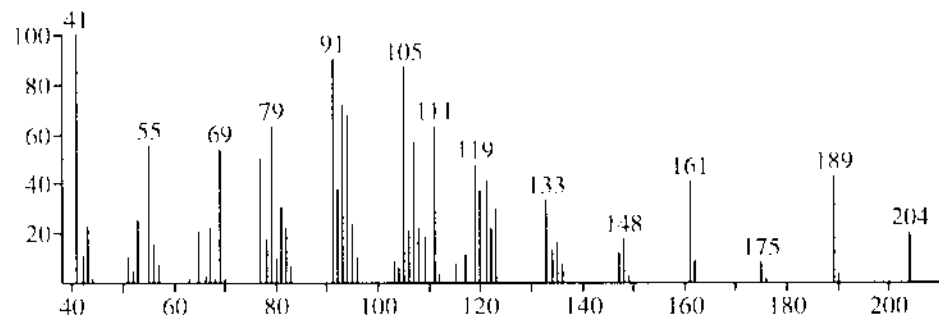
RT: 28.03 AI: 1481 KI: 1482 **Widdra-2,4(14)-diene**

CAS#: 847374-87-2 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1922

CN: 1H-benzocycloheptene, 2,3,4,4a,5,6,7,9a-octahydro-1,1,4a-trimethyl-7-methylene-, (4aR,9aR)-

Synonyms: none

Source: *Cupressus macrocarpa* oil ex Larry Cool



RT: 28.04 AI: 1481 KI: 1482 **Curcumene <γ>**

CAS#: 28976-68-3 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 768

CN: 1,3-cyclohexadiene, 1-(1,5-dimethyl-4-hexenyl)-4-methyl-

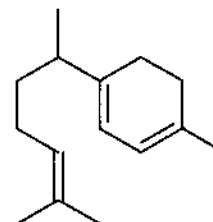
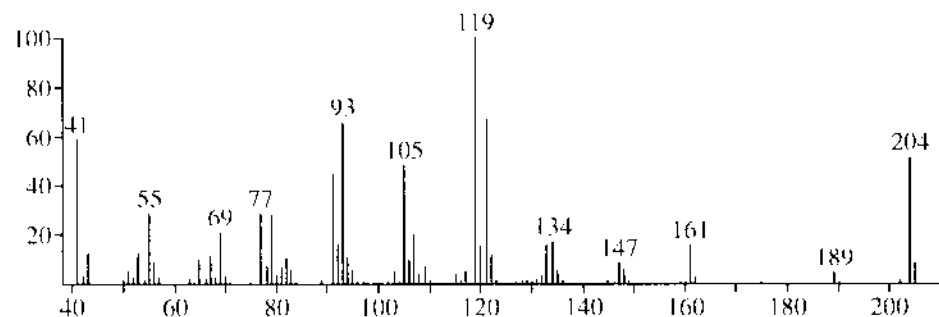
Synonyms: none

Source: *Helichrysum* oil ex P. Weyerstahl; 10.40% *Helichrysum italicum*.

p. 177. in: Progress in Essential Oil Research (Proc. Intern. Symp. on Ess. Oils).

H.-J. Brünke Ed., Gruyter Publ., Berlin(1986); 6.40% *Populus deltoides*;

1.81% *Santolina chamaecyparissus*



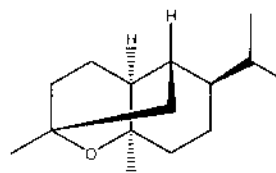
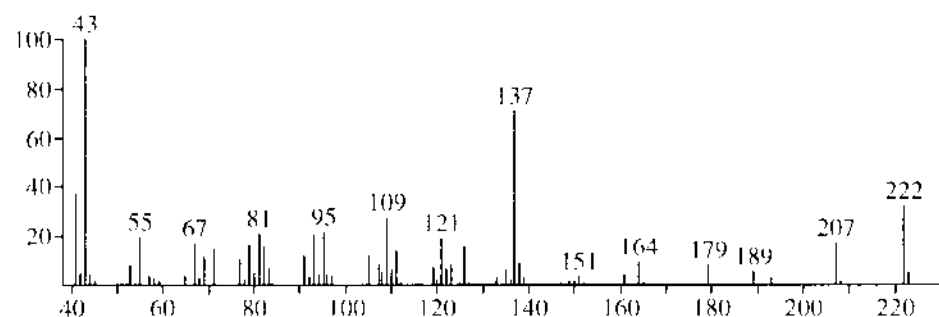
RT: 28.05 AI: 1481 KI: 1482 **Amorphane <cis-4,10-epoxy>**

CAS#: 178737-43-4 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 127

CN: 2,5-methano-2H-1-benzopyran, octahydro-2,8a-dimethyl-6-(1-methylethyl)-, (2R,4aS,5S,6S,8aR)-

Synonyms: 4,10-epoxy-muurolane

Source: ref. cpd. ex P. Weyerstahl



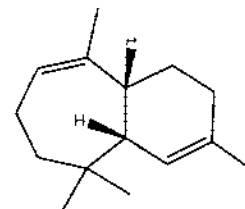
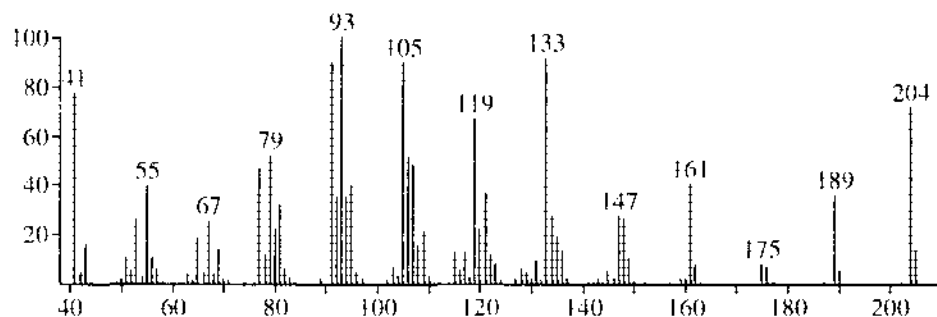
RT: 28.05 AI: 1481 KE: 1482 **Himachalene <γ>**

CAS#: 53111-25-4 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 236

CN: 1H-benzocycloheptene,2,4a,5,6,7,9a-hexahydro-3,5,5,9-tetramethyl-, (4aS-cis)-

Synonyms: none

Source: *Artemisia vestita* oil ex P. Weyerstahl; 10.50% *Cedrus atlantica*, JFOR 6:323(1994); 3.37% *Pimpinella anisum*; 2.82% *Artemisia vestita*



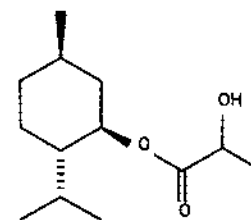
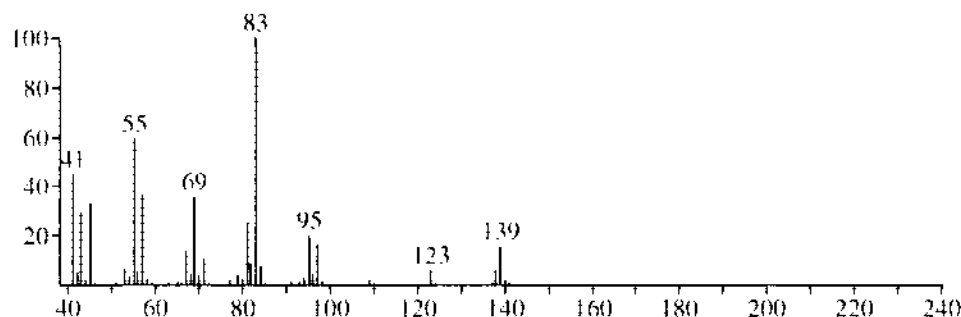
RT: 28.05 AI: 1481 KE: 1482 **Menthyl lactate**

CAS#: 59259-38-0 MF: C₁₃H₂₄O₃ FW: 228 MSD LIB#: 1083

CN: propanoic acid, 2-hydroxy-, 5-methyl-2-(1-methylethyl)cyclohexyl ester, (1R-(1a,(R*),2β,5α))-

Synonyms: none

Source: H & R Chem, ex Jian-Qin Cu, Kunming



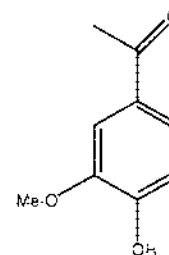
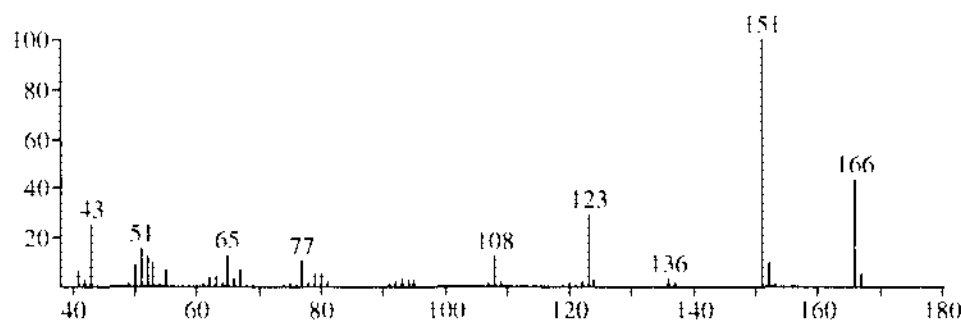
RT: 28.05 AI: 1481 KE: 1482 **Vanillone, aceto-**

CAS#: 498-02-2 MF: C₉H₁₀O₃ FW: 166 MSD LIB#: 1535

CN: ethanone, 1-(4-hydroxy-3-methoxyphenyl)-

Synonyms: acetoguaiacone; apocynine

Source: Aldrich Chem.



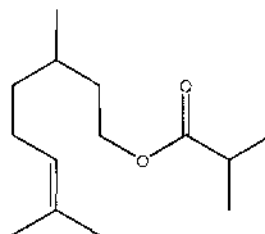
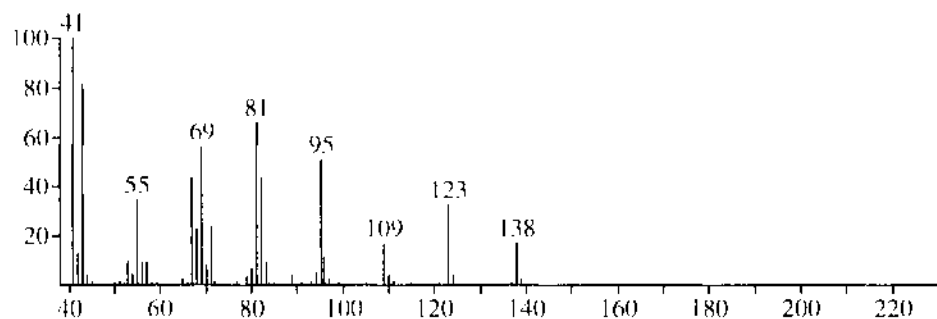
RT: 28.07 AI: 1482 KI: 1483 **Citronellol isobutanoate**

CAS#: 97-89-2 MF: C₁₄H₂₆O₂ FW: 226 MSD LIB#: 456

CN: propanoic acid, 2-methyl-, 3,7-dimethyl-6-octenyl ester

Synonyms: citronellol isobutyrate

Source: Pfaltz & Bauer ex Art Tucker



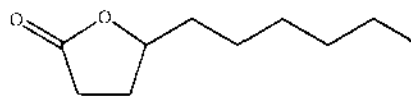
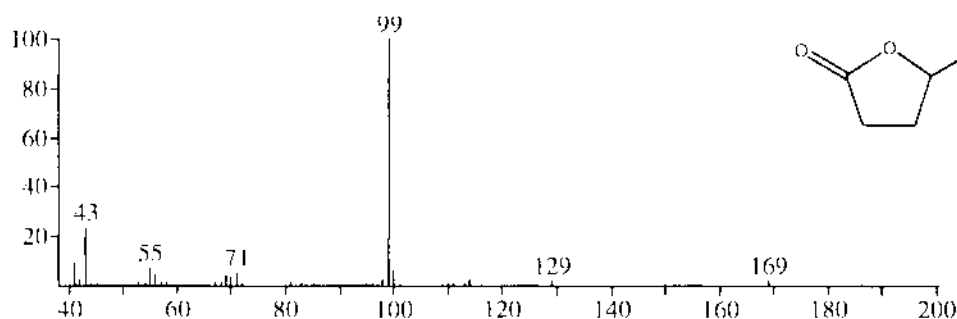
RT: 28.08 AI: 1482 KI: 1483 **Decalactone <γ-methyl-γ>**

CAS#: 7011-83-8 MF: C₁₁H₂₀O₂ FW: 184 MSD LIB#: 1981

CN: 2(3H)-furanone, 5-hexyldihydro-5-methyl-,

Synonyms: 4-methyldecanolid

Source: Bedoukian Chem. ex JJ Brophy



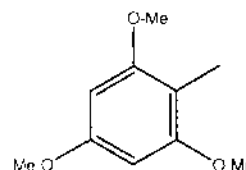
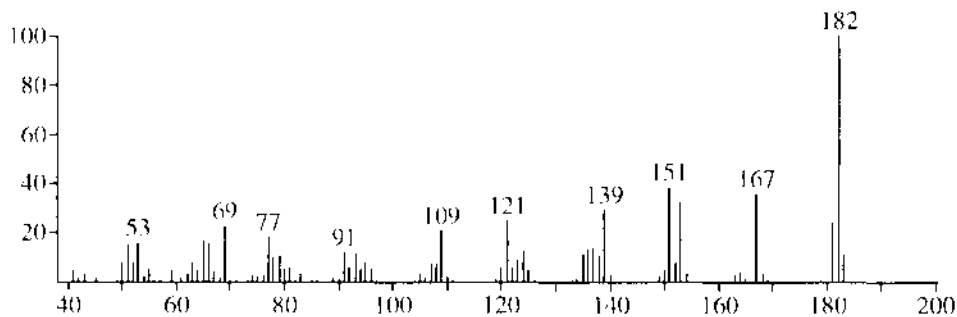
RT: 28.09 AI: 1482 KI: 1483 **Toluene <2,4,6-trimethoxy>**

CAS#: 14107-97-2 MF: C₁₀H₁₄O₃ FW: 182 MSD LIB#: 1674

CN: benzene, 1,3,5-trimethoxy-2-methyl-

Synonyms: none

Source: *Stockwellia* sp. oil ex JJ Brophy



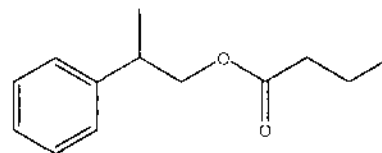
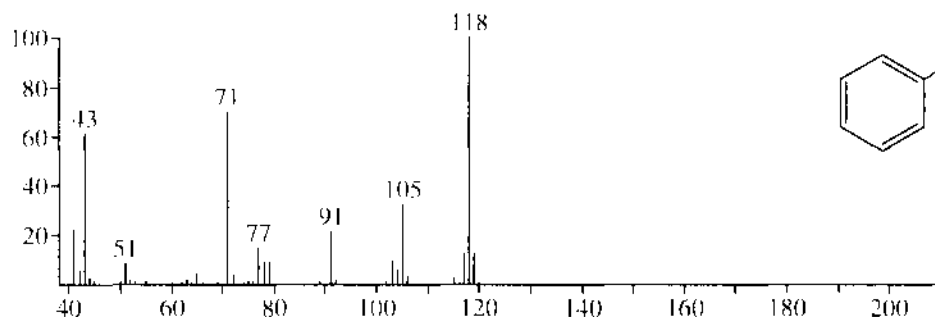
RT: 28.12 AI: 1483 KI: 1484 **Phenyl propyl butanoate <2>**

CAS#: 80866-83-7 MF: C₁₃H₁₈O₂ FW: 206 MSD LIB#: 1282

CN: butanoic acid, 2-phenylpropyl ester

Synonyms: 2-phenylpropyl butyrate

Source: Aldrich Chem. ex Art Tucker



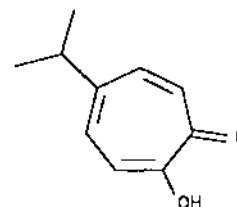
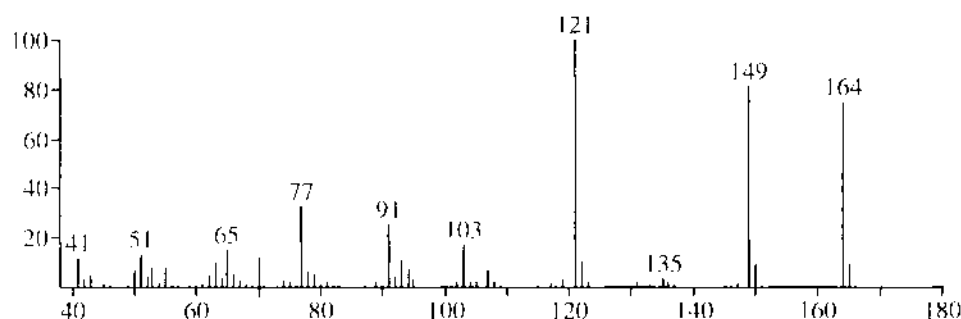
RT: 28.12 AI: 1483 KI: 1484 **Thujaplicin <γ>**

CAS#: 672-76-4 MF: C₁₀H₁₂O₂ FW: 164 MSD LIB#: 1492

CN: 2,4,6-cycloheptatrien-1-one, 2-hydroxy-5-(1-methylethyl)-

Synonyms: 5-isopropyltropolone

Source: ref. cpd. ex E. von Rudloff



RT: 28.13 AI: 1483 KI: 1484 **Amorphene <α>**

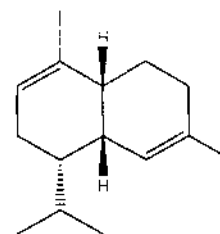
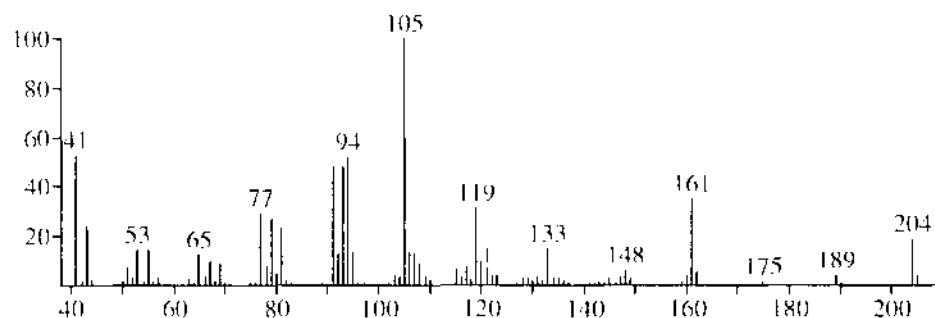
CAS#: 20085-19-2 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1316

CN: naphthalene, 1,2,4a,5,6,8a-hexahydro-4,7-dimethyl-1-(1-methylethyl)-(1R-(1α,4aβ,8aβ))-

Synonyms: cadina-4,9-diene, 1β,7βH-; zizanene

Source: *Pinus edulis* resin ex Larry Cool; 16.50% *Brachylaena hutchinsii*.

Dragoco Rept., 87-91 (1973); 9.60% *Alseuosmia macrophylla*; 5.04% *Eugenia banderensis* leaf



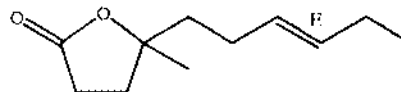
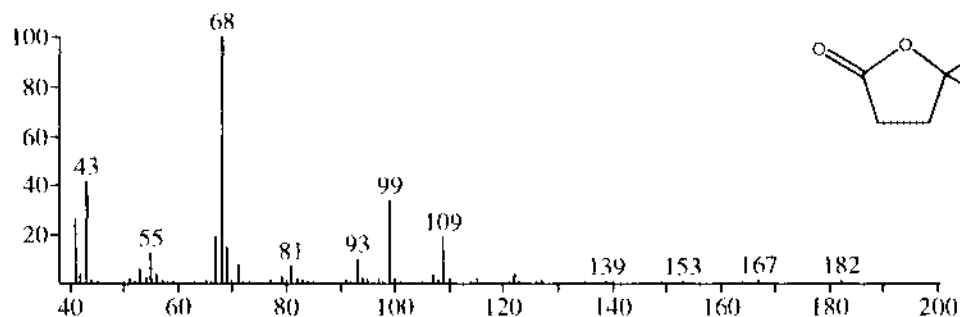
RT: 28.14 AI: 1483 KI: 1484 **Jasmone lactone <(3E)->**

CAS#: 14252-84-7 MF: C₁₁H₁₈O₂ FW: 182 MSD LIB#: 2035

CN: 2-(3H)-furanone, 5-(3-hexenyl)dihydro-5-methyl-, (3E)-

Synonyms: none

Source: Bedoukian Res.



RT: 28.15 AI: 1484 KI: 1485 **Germacrene D**

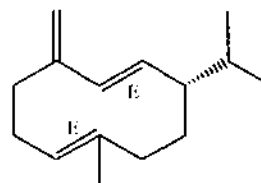
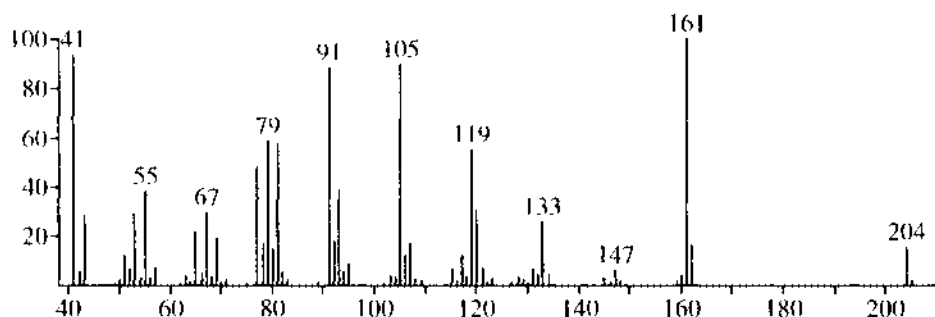
CAS#: 23986-74-5 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 500

CN: 1,6-cyclodecadiene, 1-methyl-5-methylene-8-(1-methylethyl)-, (S-(E,E))-

Synonyms: germacra-1(10),4(15),5-triene

Source: Cubeb oil ex E. von Rudloff; 81.00% *Carum carvi* (herb), FEJ 2:83(1987);

55.90% *Cinopodium vulgare*; 48.39% *Salvia sclarea*



RT: 28.19 AI: 1485 KI: 1486 **Prenyl benzoate**

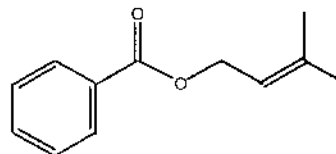
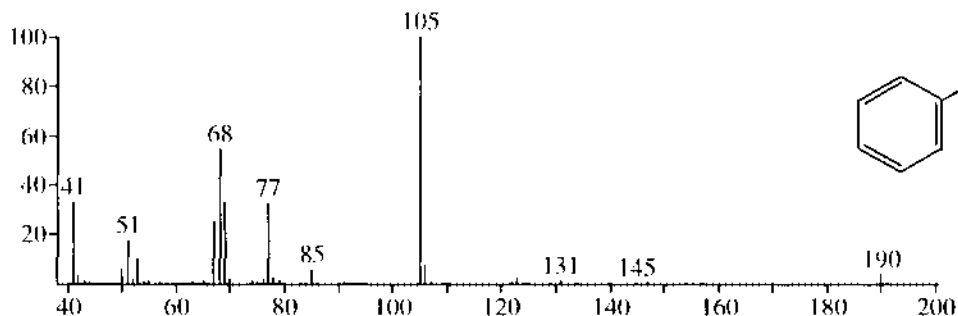
CAS#: 5205-11-8 MF: C₁₂H₁₄O₂ FW: 190 MSD LIB#: 2032

CN: 2-buten-1-ol, 3-methyl-, benzoate

Synonyms: none

Source: Bedoukian Res.: 1.94% *Narcissus jonquilla*, Shitsuryo Bunschi 3:202(1979);

0.82% *Cananga odorata*



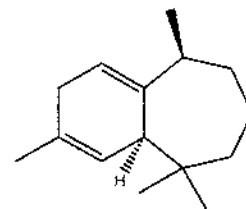
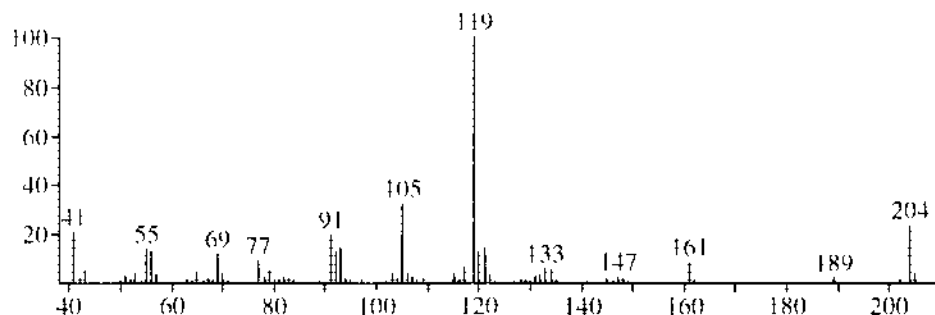
RT: 28.20 AI: 1485 KI: 1486 **Himachala-1,4-diene <11- α H->**

CAS#: 000-00-0 ME: C₁₅ H₂₄ FW: 204 MSD LIB#: 1863

CN: not assigned

Synonyms: none

Source: *Juniperus chinensis* wood oil ex Larry Cool



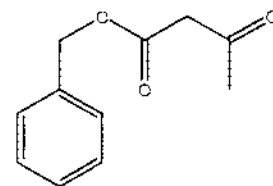
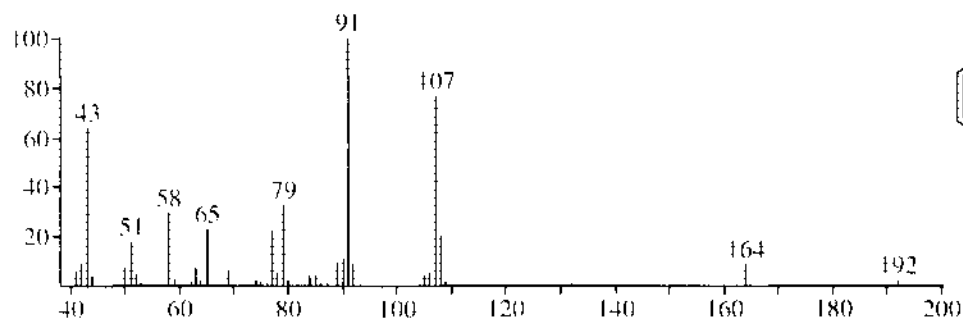
RT: 28.24 AI: 1486 KI: 1487 **Benzyl acetylacacetate**

CAS#: 5396-89-4 ME: C₁₁ H₁₂ O₃ FW: 192 MSD LIB#: 285

CN: butanoic acid, 3-oxo-, phenylmethyl ester

Synonyms: benzyl 3-oxobutanoate

Source: Aldrich Chem.



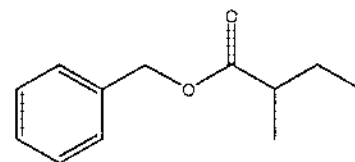
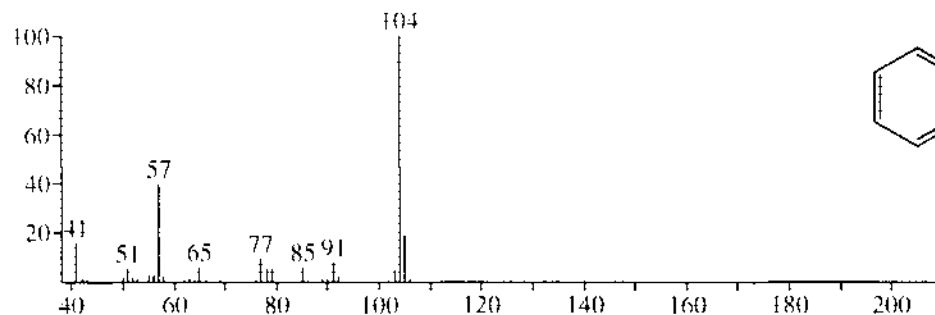
RT: 28.25 AI: 1486 KI: 1487 **Phenyl ethyl 2-methylbutanoate**

CAS#: 24817-51-4 ME: C₁₃ H₁₈ O₂ FW: 206 MSD LIB#: 1285

CN: butanoic acid, 2-methyl-, 2-phenylethyl ester

Synonyms: none

Source: Aldrich Chem. ex Art Tucker



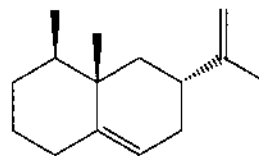
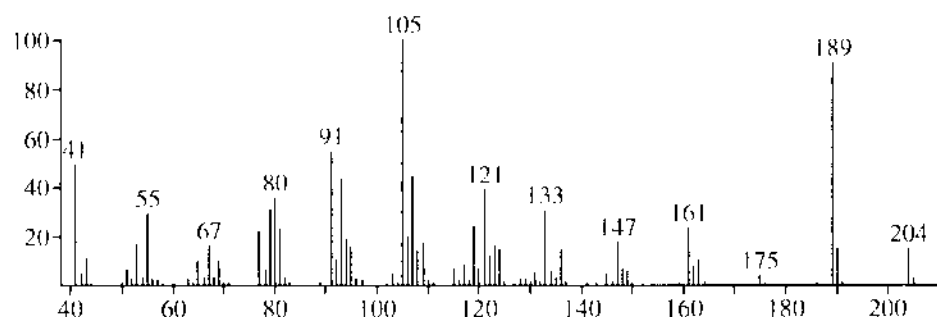
RT: 28.28 AI: 1487 K1: 1488 **Aristolochene**

CAS#: 26620-71-3 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1882

CN: naphthalene, 1,2,3,4,6,7,8,8a-octahydro-1,8a-dimethyl-7-(1-methylethyl)-, (1R,7R,8aS)-

Synonyms: 4βH,5α-cremophila-9,11-diene

Source: ref. cpd. ex Jan Demyttenaere



RT: 28.30 AI: 1487 K1: 1488 **Ionone <(E)-β->**

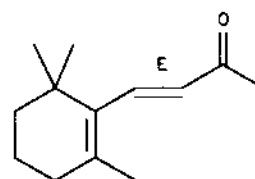
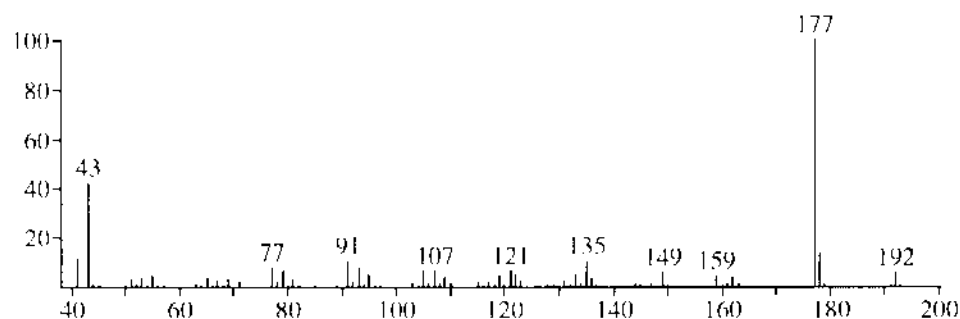
CAS#: 79-77-6 MF: C₁₃H₂₀O FW: 192 MSD LIB#: 843

CN: 3-buten-2-one, 4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-, (E)-

Synonyms: trans-β-ionone

Source: Aldrich Chem.; 48.60% *Lawsonia inermis* (flower), JEOR 7:425(1995);

19.40% *Osmanthus fragrans*; 17.18% *Cymbidium sinense*



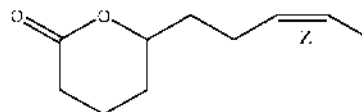
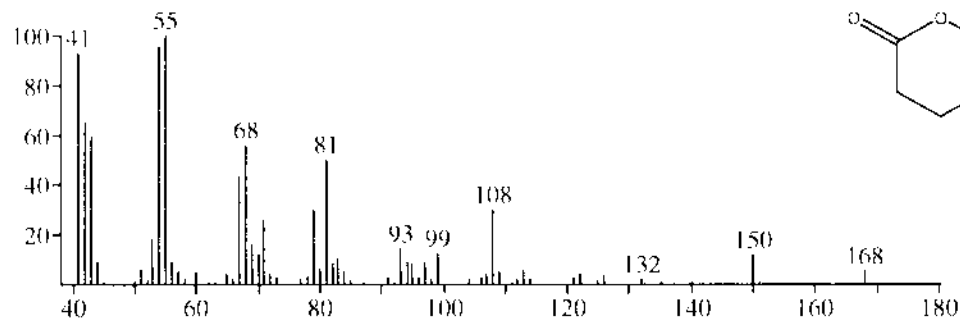
RT: 28.31 AI: 1487 K1: 1488 **Jasmolactone <(Z)->**

CAS#: 000-00-0 MF: C₁₀H₁₆O₂ FW: 168 MSD LIB#: 958

CN: 2H-pyran-2-one, tetrahydro-6-(3-pentenyl)-, (Z)-

Synonyms: none

Source: Firmenich ex Jian-Qin Cu. Kunming



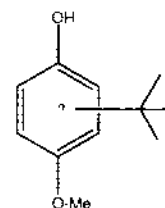
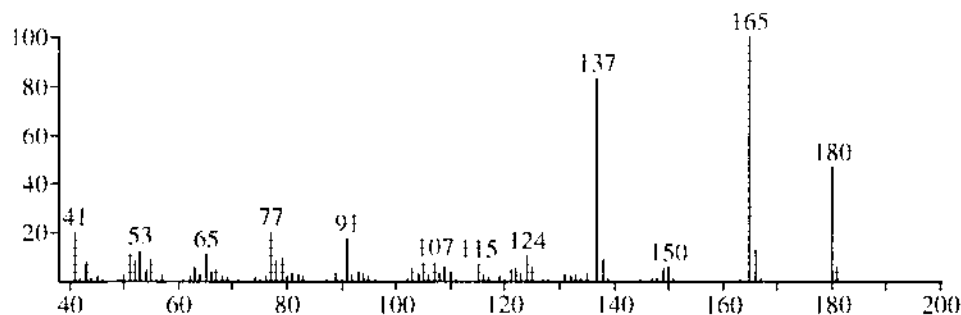
RT: 28.34 AI: 1488 KI: 1489 **Butylated hydroxy anisole**

CAS#: 25013-16-5 MF: C₁₁H₁₆O₂ FW: 180 MSD LIB#: 332

CN: phenol, (1,1-dimethylethyl)-4-methoxy-

Synonyms: antioxyne B; BHA; tert-butyl-4-methoxyphenol

Source: Aldrich Chem.



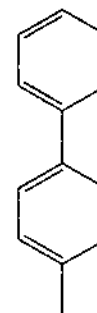
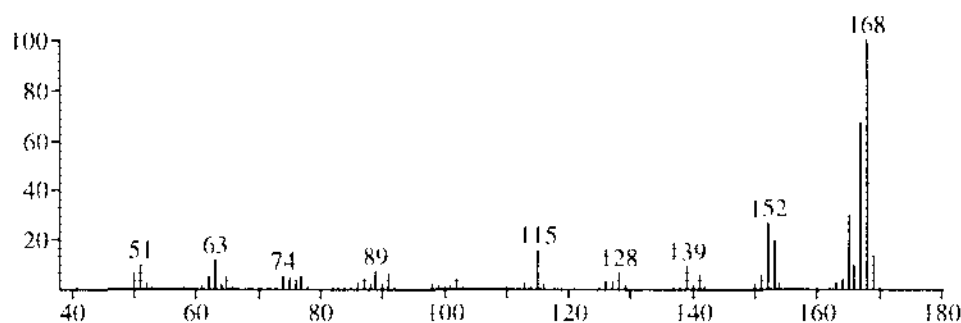
RT: 28.35 AI: 1488 KI: 1489 **Methyl biphenyl <4->**

CAS#: 644-08-6 MF: C₁₃H₁₂ FW: 168 MSD LIB#: 1653

CN: 1,1'-biphenyl, 4-methyl-

Synonyms: biphenyl <4-methyl->, p-phenyltoluene

Source: Aldrich Chem.



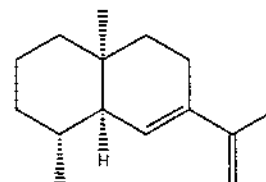
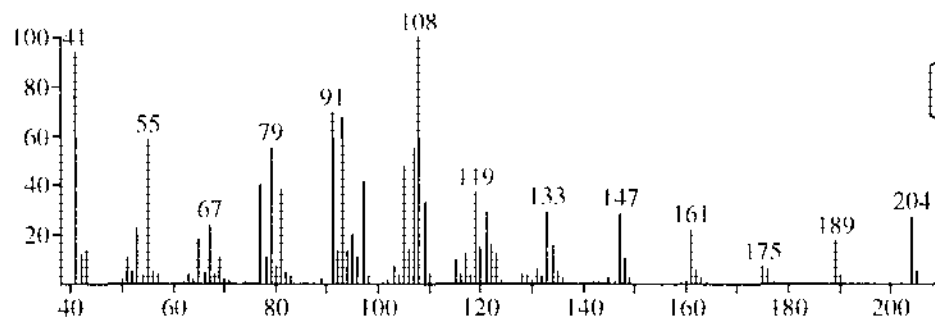
RT: 28.36 AI: 1489 KI: 1489 **Eudesma-6,11-diene <cis->**

CAS#: 194607-93-7 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 692

CN: naphthalene, 1,2,3,4,4a,5,6,8a-octahydro-1,4a-dimethyl-7-(1-methylethenyl)-, (1R,4aS,8aR)-

Synonyms: eudesmadiene

Source: ref. cpd. ex P. Weyerstahl



RT: 28.37 AI: 1489 KI: 1490 **Selinene < β >**

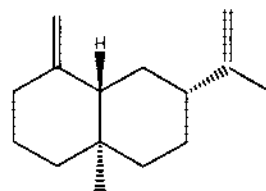
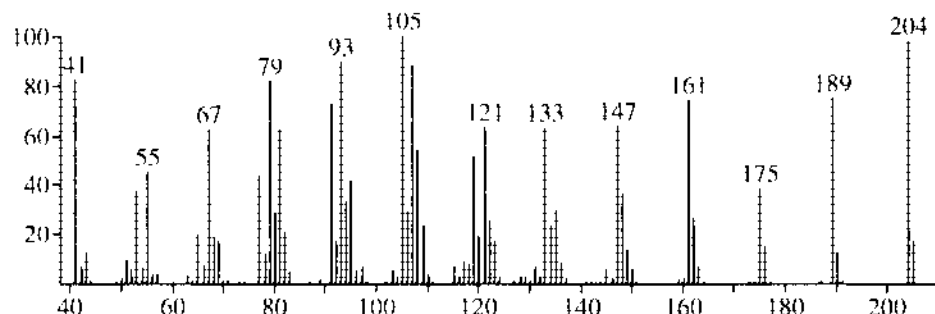
CAS#: 17066-67-0 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 420

CN: naphthalene, decahydro-4a-methyl-1-methylene-7-(1-methylethenyl)-, (4aR-(4a α ,7 α ,8 $\alpha\beta$))-

Synonyms: eudesma-4(14),11-diene; selina-4(14),11-diene; β -eudesmene

Source: distillation of celery leaves, RP Adams #5942; 30.50% *Apium graveolens*.

Pakistan J. Sci. Ind. Res. 19:243(1976); 17.39% *Coleus aromaticus*; 16.20% *Ferula asafetida*



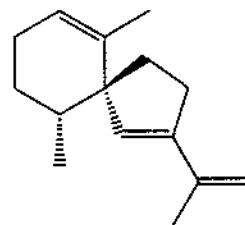
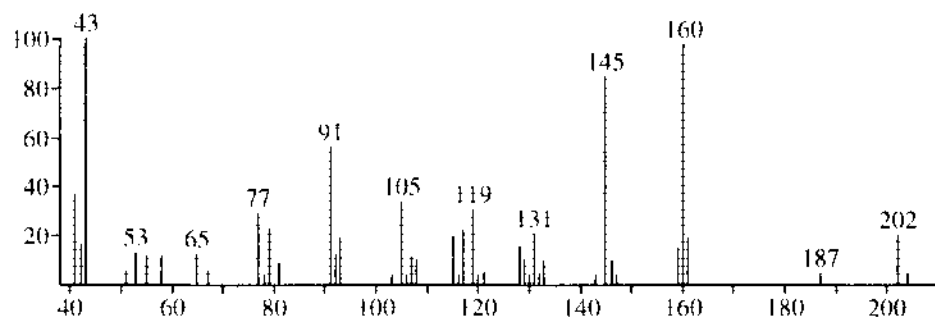
RT: 28.38 AI: 1489 KI: 1490 **Vetispirene < α >**

CAS#: 51196-11-3 MF: C₁₅H₂₂ FW: 202 MSD LIB#: 1567

CN: spiro(4,5)deca-1,6-diene, 6,10-dimethyl-2-(1-methylethenyl)-

Synonyms:

Source: Vetiver cv. PB, Portugal; 1.00% *Vetiveria zizanoides*, Rivista Ital EPPoS 54:315(1972)



RT: 28.43 AI: 1490 KI: 1491 **Neryl isobutanoate**

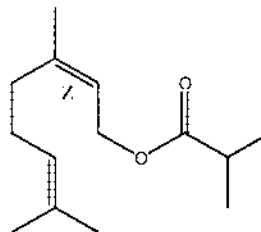
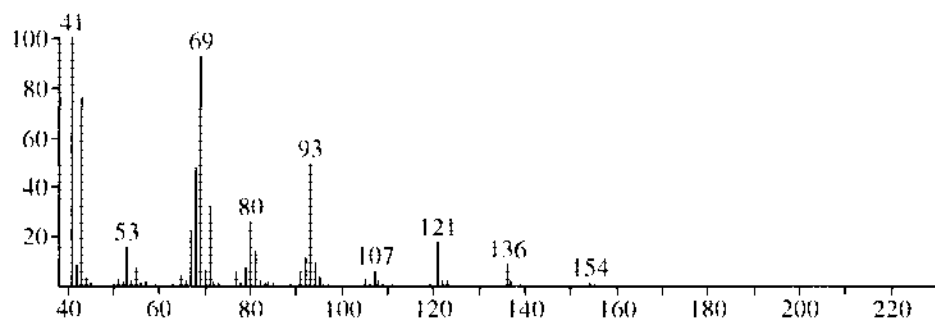
CAS#: 2345-24-6 MF: C₁₄H₂₄O₂ FW: 224 MSD LIB#: 1147

CN: propanoic acid, 2-methyl-, 3,7-dimethyl-2,6-octadienyl ester, (Z)-

Synonyms: neryl isobutyrate

Source: Aldrich Chem. ex H. Hills; 1.44% *Artemisia absinthum*, JEOR 5:239(1993);

0.05% *Thymus funkii*



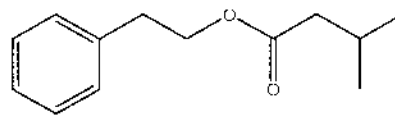
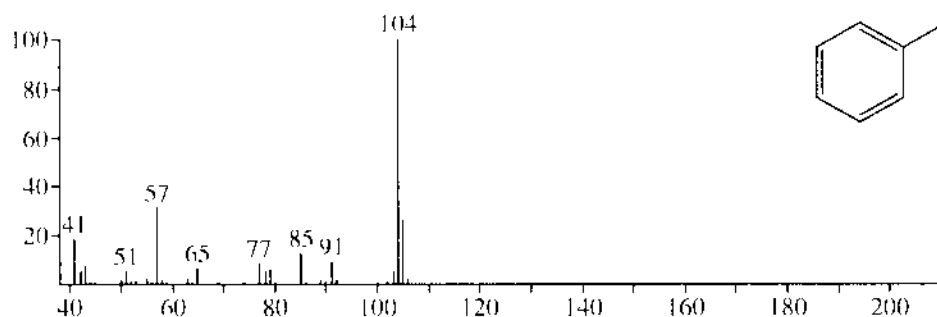
RT: 28.43 AI: 1490 KI: 1491 **Phenyl ethyl 3-methyl butanoate**

CAS#: 140-26-1 MF: C₁₃H₁₈O₂ FW: 206 MSD LIB#: 1273

CN: butanoic acid, 3-methyl-, 2 phenylethyl ester

Synonyms: phenethyl isovalerate

Source: Aldrich Chem.



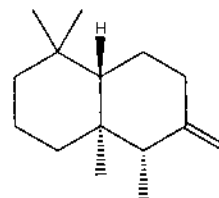
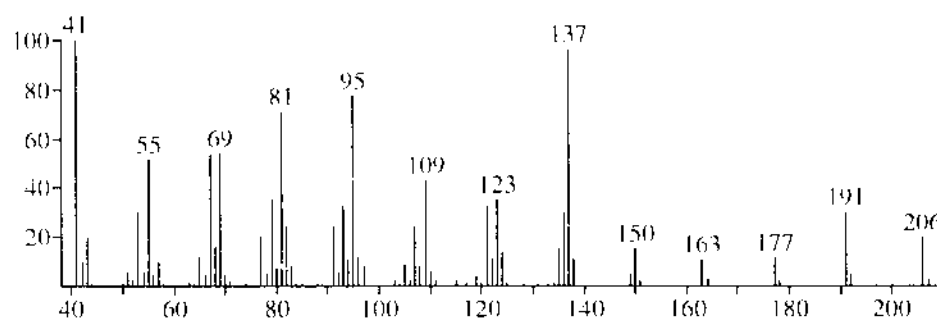
RT: 28.45 AI: 1491 KI: 1491 **Drin-8(12)-ene**

CAS#: 168113-16-4 MF: C₁₅H₂₆ FW: 206 MSD LIB#: 631

CN: naphthalene, decahydro-1,1,4a,5-tetramethyl-6-methylene-, (4aR-(4aα, 5α, 8aβ))-

Synonyms: none

Source: ref. epd. ex P. Weyerstahl



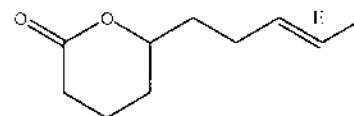
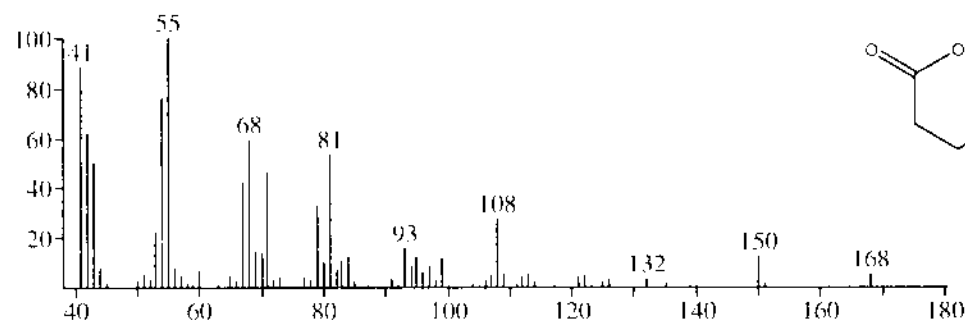
RT: 28.45 AI: 1491 KI: 1491 **Jasmolactone <(E)->**

CAS#: 75253-68-8 MF: C₁₀H₁₆O₂ FW: 168 MSD LIB#: 957

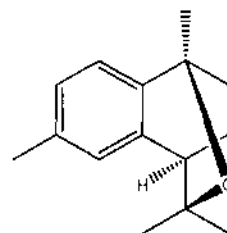
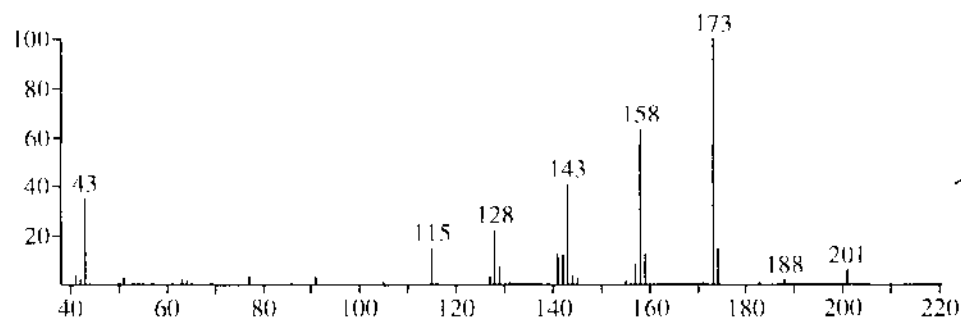
CN: 2H-pyran-2-one, tetrahydro-6-(3-pentenyl)-, (E)-

Synonyms: none

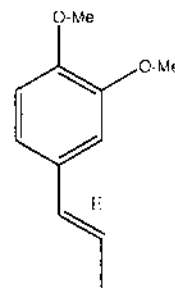
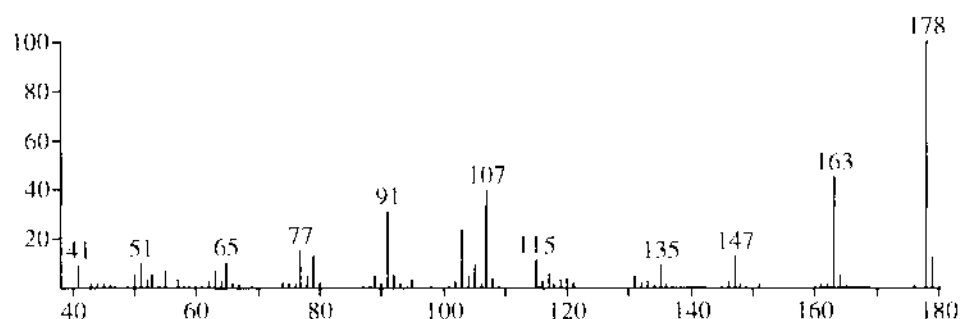
Source: Firmenisch ex Jian-Qin Cu. Kunming; 0.01% *Jasminum officinale* (absolute).
J. Ag. Food Chem. 31:554(1983)



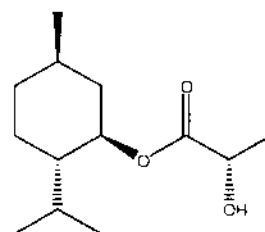
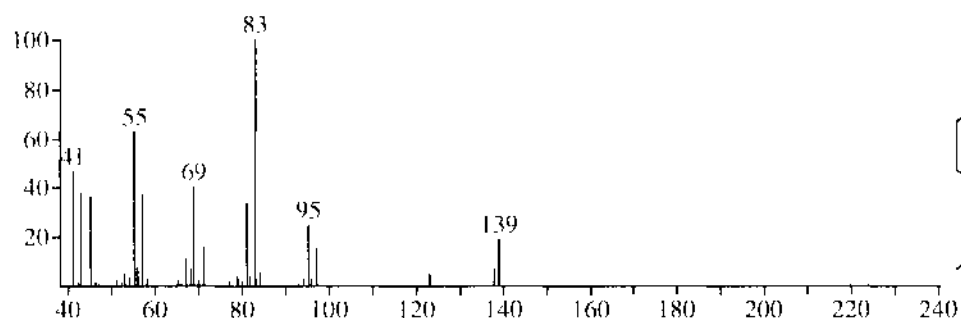
RT: 28.47 AI: 1491 KI: 1492 **Calamenene <10,11-epoxy->**
 CAS#: 143785-42-6 MF: C₁₅H₂₀O FW: 216 MSD LIB#: 347
 CN: 1,4-ethano-1H-2-benzopyran, 3,4-dihydro-1,3,3,6-tetramethyl-
 Synonyms: 1,11-oxidocalamenene
 Source: ref. cpd. ex P. Weyerstahl



RT: 28.47 AI: 1491 KI: 1492 **Methyl isoeugenol <(E)->**
 CAS#: 6379-72-2 MF: C₁₁H₁₄O₂ FW: 178 MSD LIB#: 352
 CN: benzene, 1,2-dimethoxy-4-(1-propenyl)-, (E)-
 Synonyms: trans-methylisoeugenol; 4-trans-propenyl veratrole
 Source: Calamus oil ex Firmenich ex AF Thomas; 88.80% *Melaleuca leucadendra*,
 FEJ 3:43(1988); 85.71% *Cinnamomum septentrionale*; 20.00% *Narcissus poeticus* (absolute)



RT: 28.49 AI: 1492 KI: 1492 **Menthyl lactate <iso->**
 CAS#: 000-00-0 MF: C₁₃H₂₄O₃ FW: 228 MSD LIB#: 1084
 CN: not assigned
 Synonyms: none
 Source: H & R ex Jian-Qin Cu. Kunming



RT: 28.49 AI: 1492 KI: 1492 **Selinene < δ ->**

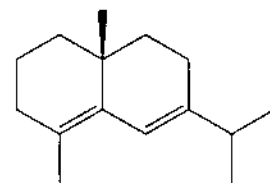
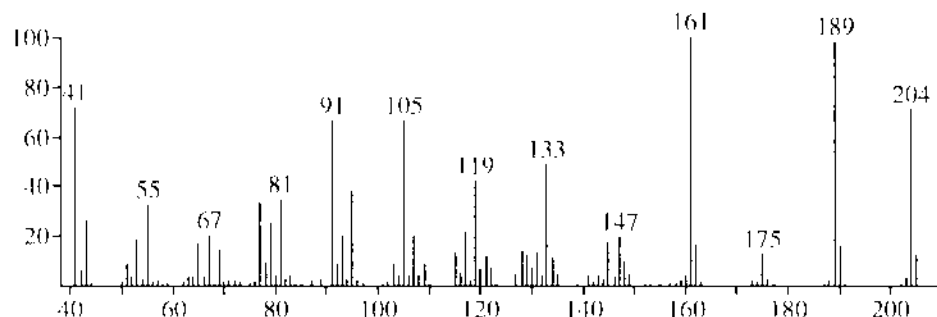
CAS#: 28624-28-4 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 594

CN: naphthalene, 2,3,4,4a,5,6-hexahydro-1,4a-dimethyl-7-(1-methylethyl)-

Synonyms: eudesma-4,6-diene

Source: ref. cpd. ex Ian Southwell: 18.28% *Psidium guajava*, FIJ 9:135(1994);

3.69% *Psidium lithospermifolia*; 3.67% *Alpinia conchigera*



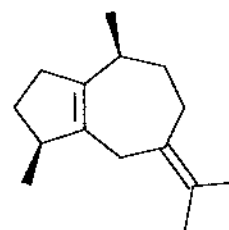
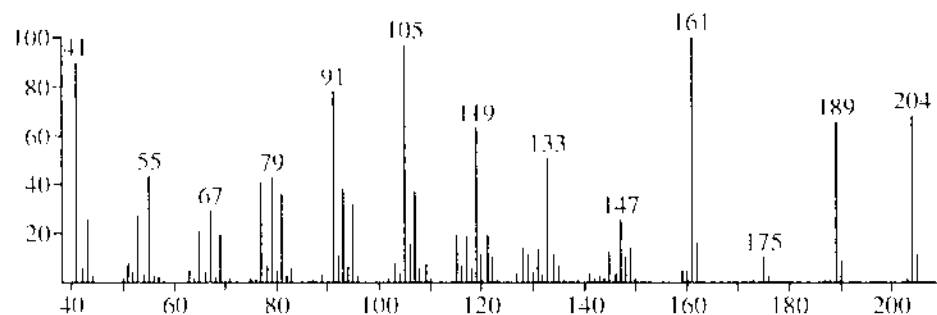
RT: 28.51 AI: 1492 KI: 1493 **Guaiene <cis- β ->**

CAS#: 88-84-6 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 758

CN: azulene, 1,2,3,4,5,6,7,8-octahydro-1,4-dimethyl-7-(1-methylethylidene)-, (1S-cis)-

Synonyms: guaia-1(5),7(11) diene; guaiene

Source: guaiac wood oil ex R. Stipanovic, TAMU



RT: 28.53 AI: 1493 KI: 1493 **Capillene**

CAS#: 520-74-1 MF: C₁₂H₁₀ FW: 154 MSD LIB#: 1734

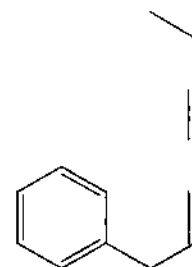
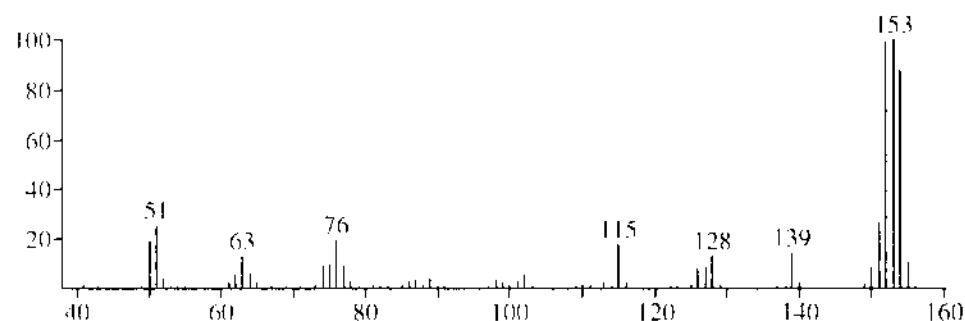
CN: benzene, 2,4-hexadienyl-

Synonyms: agropyrene, capillen, phenyl-2,4-hexadiene

Source: *Santolina rosmarinifolia* ex Jesus P. Paul; 53.31% *Artemisia pubescens*,

p. 283, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong(1993);

0.80% *Artemisia waltonii*



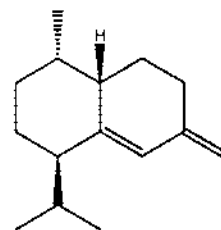
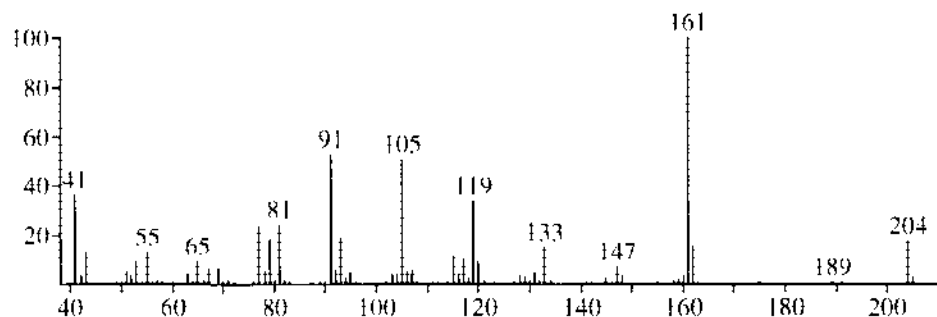
RT: 28.53 AI: 1493 KI: 1493 **Muurolo-4(14),5-diene <trans->**

CAS#: 54324-03-7 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 510

CN: naphthalene, 1,2,3,4,4a,5,6,7-octahydro-4-methyl-7-methylene-1-(1-methylethyl)-, (1S,4R,4aR)-

Synonyms: none

Source: *Cupressus duclouxiana* leaf oil, fraction, ex Larry Cool



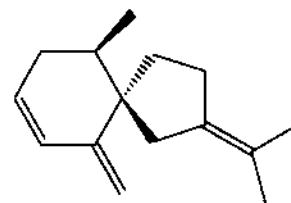
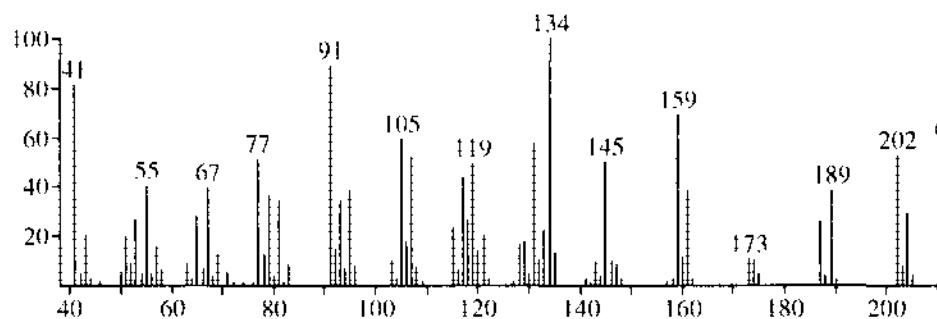
RT: 28.53 AI: 1493 KI: 1493 **Vetispirene <β->**

CAS#: 28908-27-2 MF: C₁₅H₂₂ FW: 202 MSD LIB#: 1566

CN: spiro[4.5]dec-7-ene, 10-methyl-6-methylene-2-(1-methylethylidene)-

Synonyms: none

Source: Vetiver cv. SLA, Portugal; 1.00% *Vetiveria zizanoides*, Rivista Ital. EPPOS 54:315(1972)



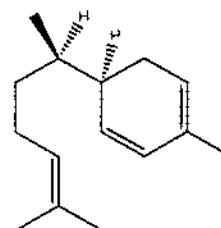
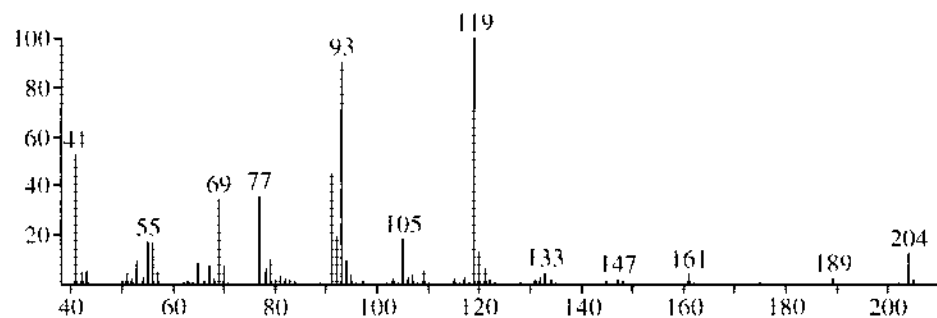
RT: 28.53 AI: 1493 KI: 1493 **Zingiberene <α->**

CAS#: 495-60-3 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 746

CN: 1,3-cyclohexadiene, 5-(1,5-dimethyl-4-hexenyl)-2-methyl-, (S-(R*,S*))-

Synonyms: zingiberene

Source: distillation of ginger roots (Schilling Co.), RP Adams #5436; 35.56% *Zingiber officinale*, J.EOR 5:465(1993); 4.37% *Pimpinella anisum* (herb); 1.10% *Curcuma xanthorrhiza*



RT: 28.55 AI: 1493 KI: 1494 **Cubebol <epi->**

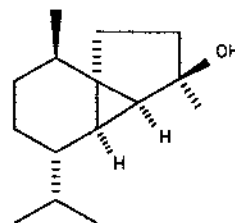
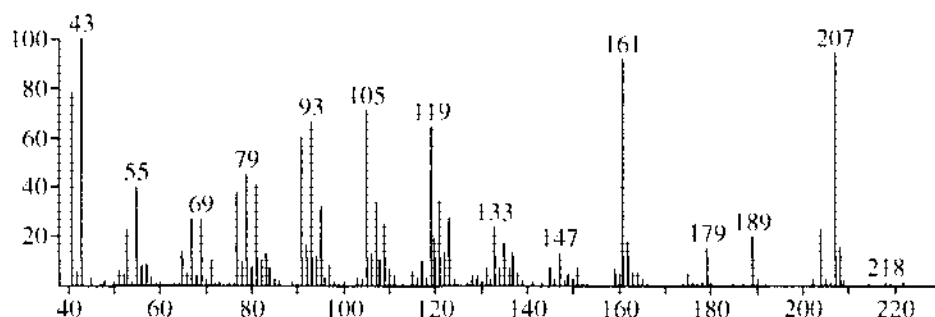
CAS#: 38230-60-3 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 257

CN: 111-cyclopenta(1,3)cyclopropa(1,2)benzen-3-ol, octahydro-3,7-dimethyl-4-(1-methylethyl)-, (3R-(3 α ,3 α β ,3 β β ,4 β ,7 α ,7 α R*))-

Synonyms: 4-epi-cubebol

Source: Ayon oil ex P.Weyerstahl; 3.50% *Piper cubeba*, Perf Flav. 5:6&27(1980);

0.98% *Calendula officinalis*; 0.40% *Sideritis condensata*



RT: 28.55 AI: 1493 KI: 1494 **Decalactone < δ ->**

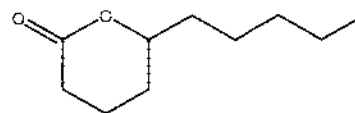
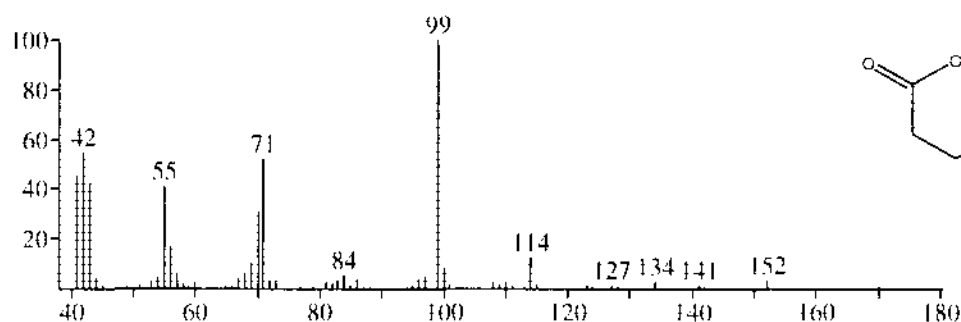
CAS#: 705-86-2 MF: C₁₀H₁₈O₂ FW: 170 MSD LIB#: 568

CN: 2H-pyran-2-one, tetrahydro-6-pentyl-

Synonyms: 5-decanolide; dihydrojasmin lactone

Source: Aldrich Chem.; 11.70% *Osmanthus fragrans*, Rastit. Resur. 22:243(1986);

0.60% *Pinus sibirica*; 0.11% *Hedychium coronarium*



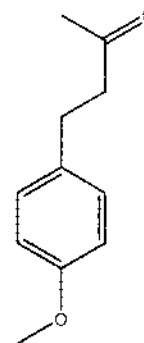
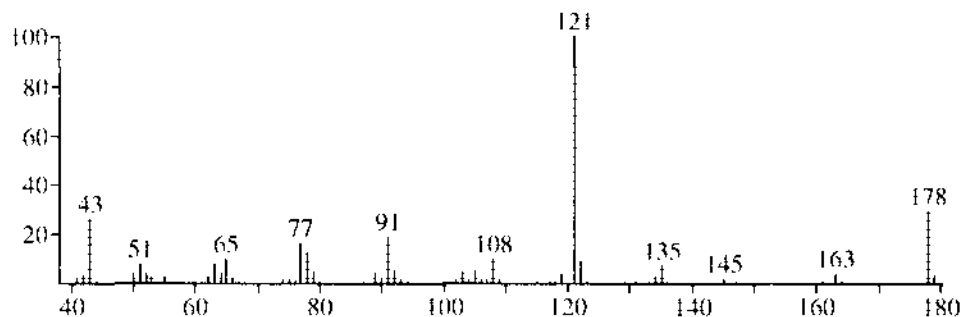
RT: 28.55 AI: 1493 KI: 1494 **Raspberry ketone, methyl ether**

CAS#: 104-20-1 MF: C₁₁H₁₄O₂ FW: 178 MSD LIB#: 1648

CN: 2-butanone, 4-(4-methoxyphenyl)-

Synonyms: anisylacetone, 2-butanone <4-(4-methoxyphenyl)->

Source: Aldrich Chem.



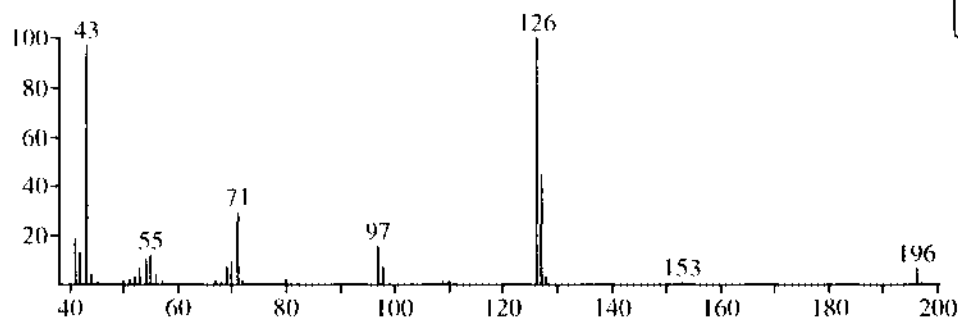
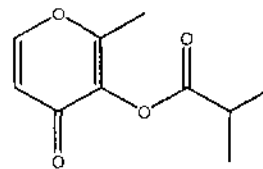
RT: 28.58 AI: 1494 KI: 1494 **Maltol isobutyrate**

CAS#: 65416-14-0 MF: C₁₀H₁₂O₄ FW: 196 MSD LIB#: 1635

CN: propanoic acid, 2-methyl-, 2-methyl-4-oxo-4H-pyran-3-yl ester

Synonyms: none

Source: Aldrich Chem.



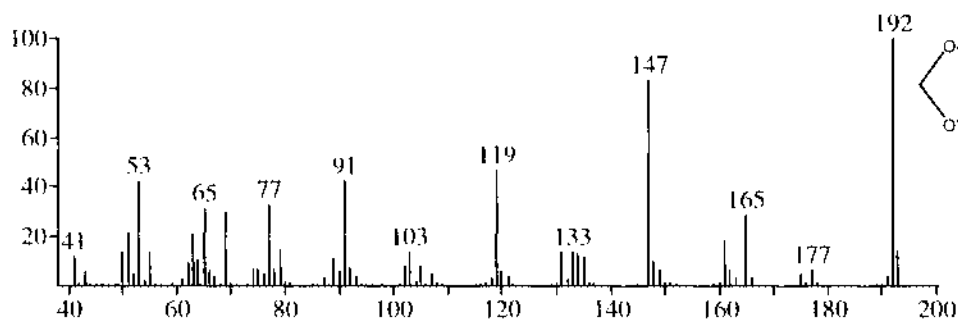
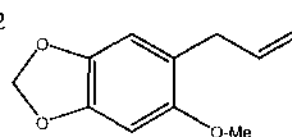
RT: 28.62 AI: 1495 KI: 1495 **Asaricin**

CAS#: 18607-93-7 MF: C₁₁H₁₂O₃ FW: 192 MSD LIB#: 488

CN: 1,3-benzodioxole, 5-methoxy-6-(2-propenyl)-

Synonyms: sarisan

Source: *Crocea exalta* ex J.J. Brophy



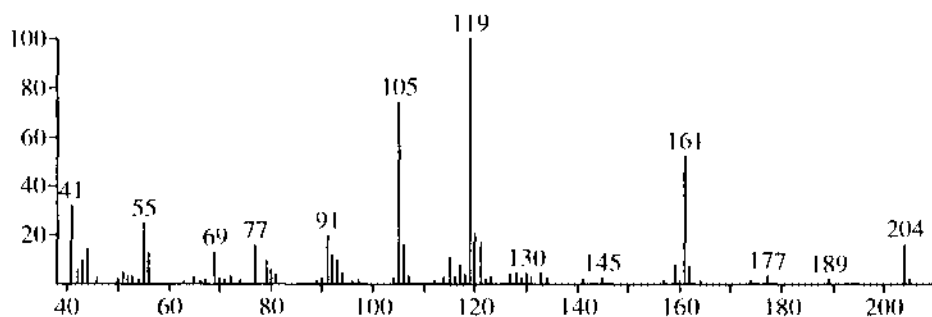
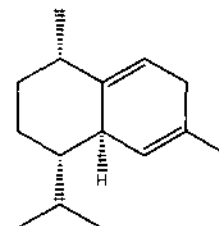
RT: 28.62 AI: 1495 KI: 1495 **Cadina-1,4-diene <cis->**

CAS#: 29837-12-5 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1317

CN: naphthalene, 1,2,3,4,4a,7-hexahydro-1,6 dimethyl-4-(1-methylethyl)-, (1S-(1α,4α,4aα))-

Synonyms: cubenene

Source: *Pinus edulis* resin ex Larry Cool



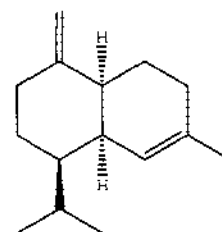
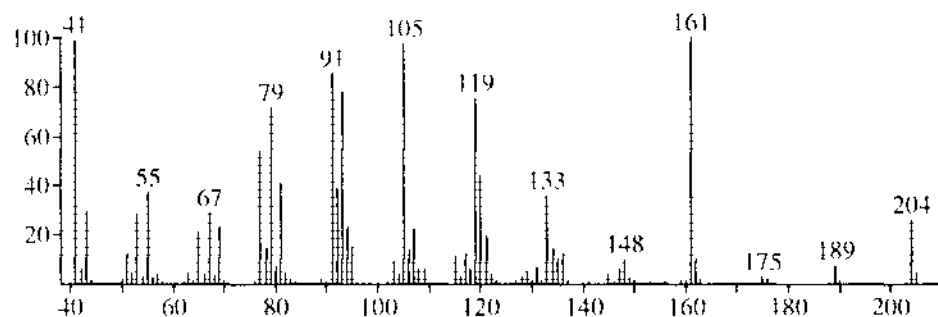
RT: 28.63 AI: 1495 KI: 1495 **Amorphene <γ>**

CAS#: 6980-46-7 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1320

CN: naphthalene, 1,2,3,4,4a,5,6,8a-octahydro-7-methyl-4-methylene-1-(1-methylethyl)-, (1S-(1α,4β,8αβ))-

Synonyms: none

Source: *Pinus edulis* resin ex Larry Cool; 2.36% *Torreya taxifolia*, JEOR 5:247(1993); 1.50% *Piper nigrum*; 1.40% *Cabralea cangerana*



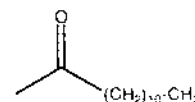
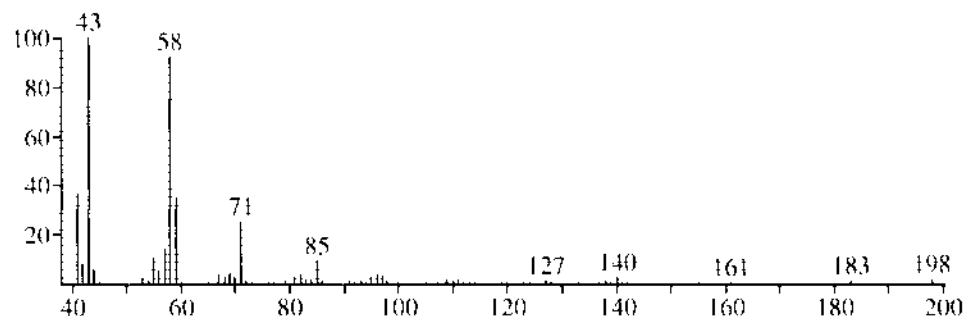
RT: 28.64 AI: 1495 KI: 1496 **Tridecanone <2>**

CAS#: 593-08-8 MF: C₁₃H₂₆O FW: 198 MSD LIB#: 924

CN: 2-tridecanone

Synonyms: methyl undecyl ketone

Source: *Juniperus oxycedrus* var. *badia*, Spain leaves, RP Adams #7795; 4.80% *Vitis vinifera*, JEOR 6:311(1994); 3.32% *Rosa rugosa*; 3.10% *Allium fistulosum*



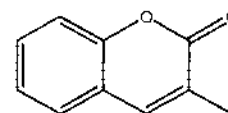
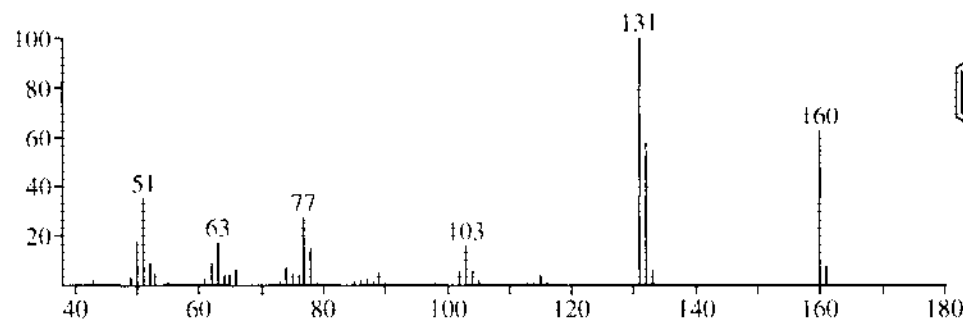
RT: 28.65 AI: 1495 KI: 1496 **Coumarin <3-methyl>**

CAS#: 2445-82-1 MF: C₁₀H₈O₂ FW: 160 MSD LIB#: 476

CN: 2H-1-benzopyran-2-one, 3-methyl-

Synonyms: none

Source: ref. cpd. ex E von Rudloff



RT: 28.66 AI: 1496 KI: 1496 **Valencene**

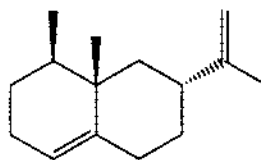
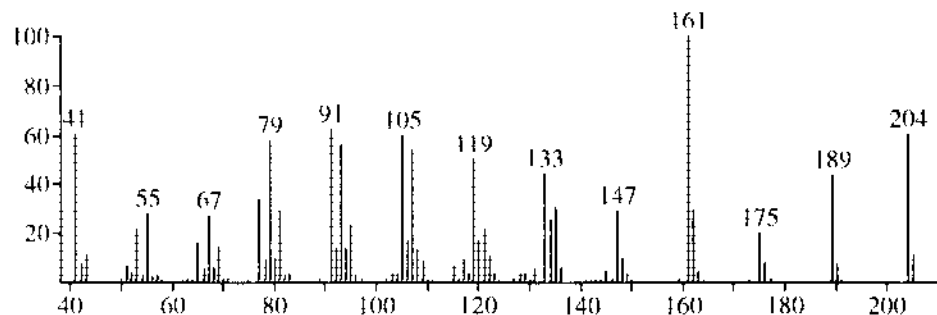
CAS#: 4630-07-3 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1528

CN: naphthalene, 1,2,3,5,6,7,8,8a-octahydro-1,8a-dimethyl-7-(1-methylethenyl)-, (1R-(1 α ,7 β ,8 $\alpha\alpha$))-

Synonyms: cremophila-1(10),11-diene, 4 β H,5 α -

Source: CA Aromatica ex H Hills: 31.80% *Vitis vinifera*, JEOR 6:311(1994);

5.20% *Alpinia chinensis* (root); 3.00% *Triphasia trifolia*



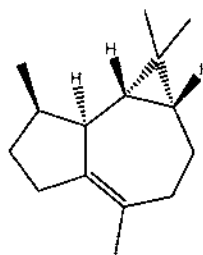
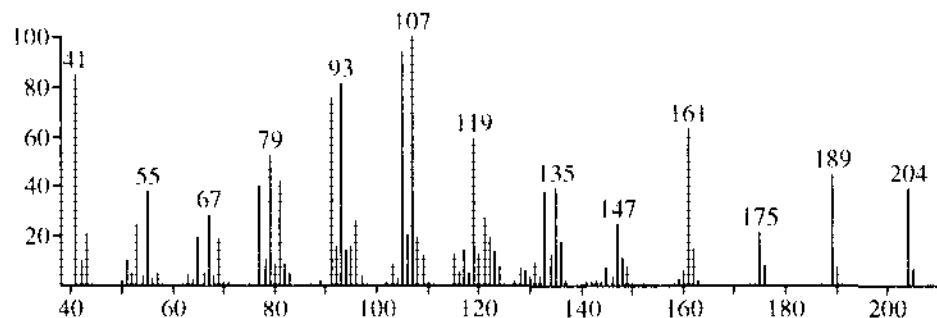
RT: 28.68 AI: 1496 KI: 1496 **Viridiflorene**

CAS#: 21747-46-6 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 6

CN: 1H-cycloprop(e)azulene, 1a,2,3,5,6,7,7a,7b-octahydro-1,1,4,7-tetramethyl-, (1aR-(1 α ,7 α ,7 β ,7 α))-

Synonyms: ledene

Source: *Acacia spirorbis* oil ex JJ Brophy



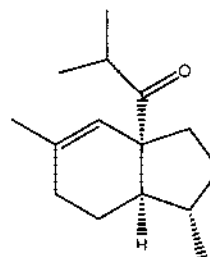
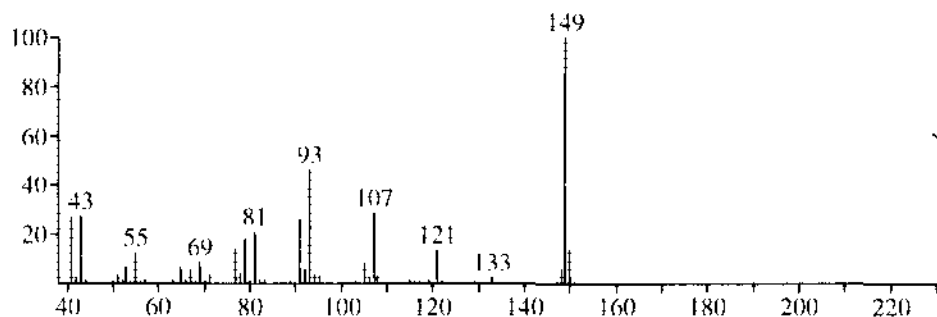
RT: 28.69 AI: 1496 KI: 1497 **Indipone**

CAS#: 169238-61-3 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 839

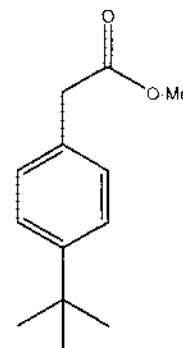
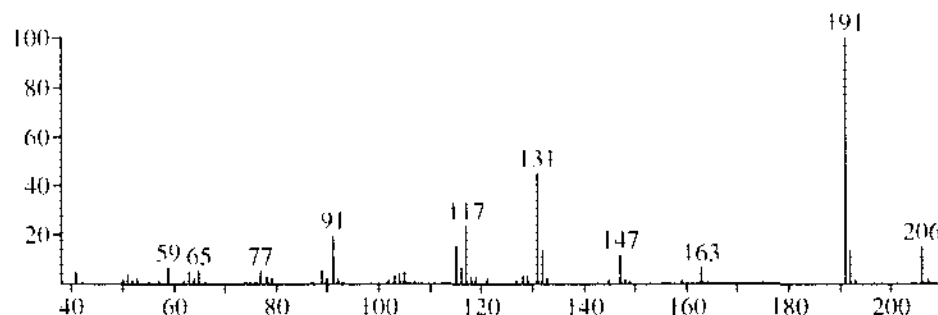
CN: 1-propanone, 1-(1S,3aR,7aR)-1,2,3,6,7,7a-hexahydro-1,5-dimethyl-3aH-inden-3a-yl)-2-methyl-

Synonyms: none

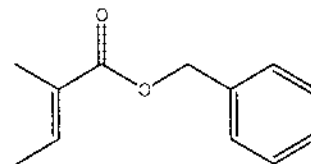
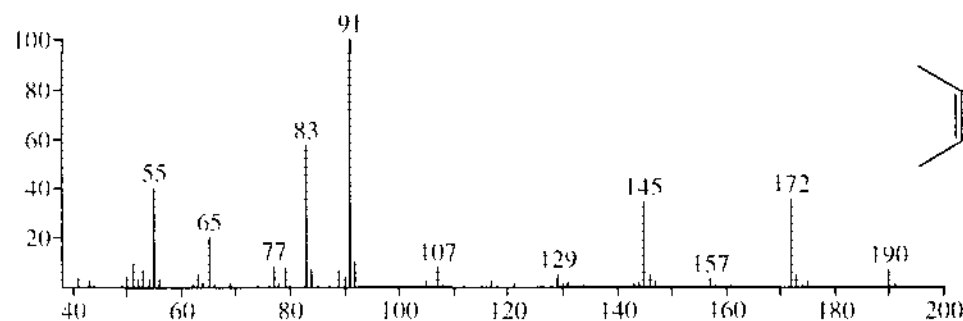
Source: ref. cpd. ex Larry Cool



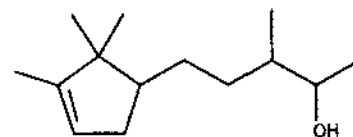
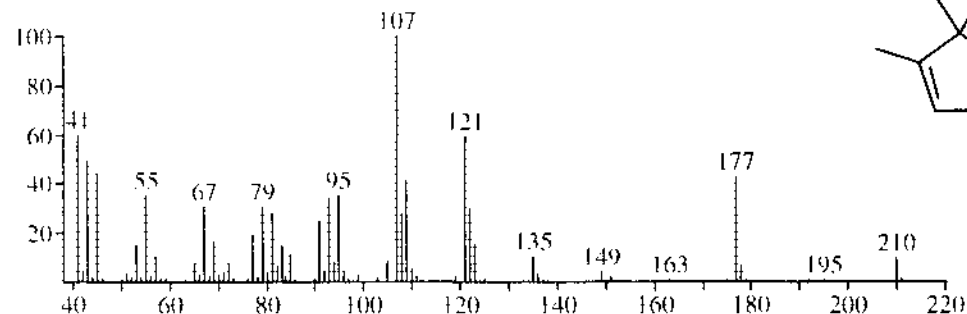
RT: 28.70 AI: 1497 KI: 1497 **Methyl p-tert-butylphenyl acetate**
 CAS#: 3549-23-3 MF: C₁₃H₁₈O₂ FW: 206 MSD LIB#: 1697
 CN: benzeneacetic acid, 4-(1,1-dimethylethyl)-, methyl ester
 Synonyms: none
 Source: Aldrich Chem.



RT: 28.71 AI: 1497 KI: 1497 **Benzyl tiglate**
 CAS#: 37526-88-8 MF: C₁₂H₁₄O₂ FW: 190 MSD LIB#: 46
 CN: 2-butenic acid, 2-methyl-, phenylmethyl ester,(E)-
 Synonyms: tiglic acid benzyl ester
 Source: Aldrich Chem.; 0.25% *Hedychium coronarium*, FFI 6:217(1991);
 0.20% *Rosa damascena*; 0.15% *Minusops elengi*



RT: 28.72 AI: 1497 KI: 1497 **Sandalore**
 CAS#: 65113-99-7 MF: C₁₄H₂₆O FW: 210 MSD LIB#: 1376
 CN: 3-cyclopentene-1-butanol, $\alpha,\beta,2,2,3$ -pentamethyl-
 Synonyms: none
 Source: Givaudan ex Jian-Qin Cu, Kunming



RT: 28.74 AI: 1498 KI: 1498 **Selinene < α >**

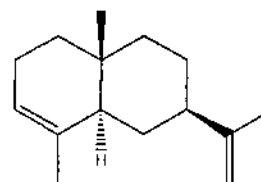
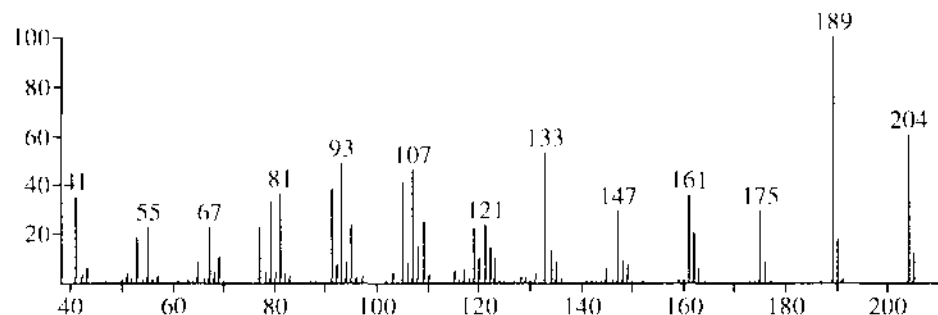
CAS#: 473-13-2 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 421

CN: naphthalene, 1,2,3,4,4a,5,6,8a-octahydro-4a,8-dimethyl-2-(1-methylethenyl)-, (2R (2 α ,4 α ,8 α))-

Synonyms: eudesma-3,11-diene; selina-3,11-diene

Source: distillation of celery leaves, RP Adams #5942; 23.70% *Psidium guajava*,

FEI 9:135(1994); 11.76% *Psidium graveolens*; 8.60% *Cannabis sativa*



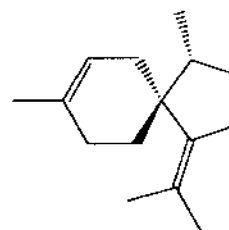
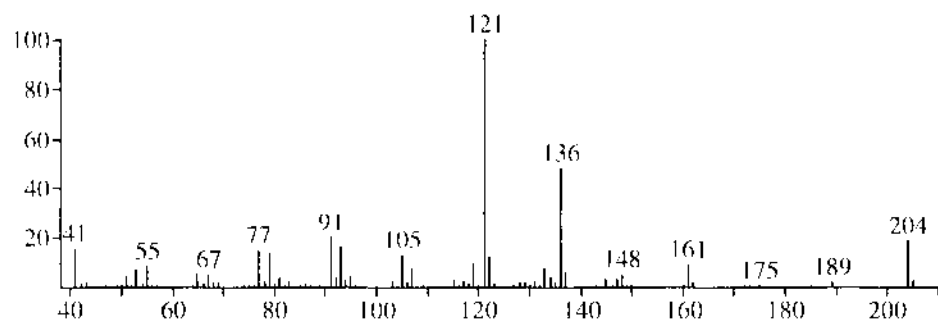
RT: 28.75 AI: 1498 KI: 1498 **Alaskene < β >**

CAS#: 99529-78-9 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 823

CN: spiro[4.5]dec-7-ene, 1,8-dimethyl-4-(1-methylethylidene-, cis-)

Synonyms: acoradiene, δ -

Source: *Widdringtonia whytei* wood oil ex A.B. Wood



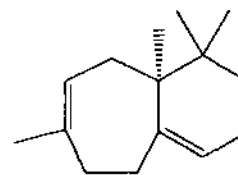
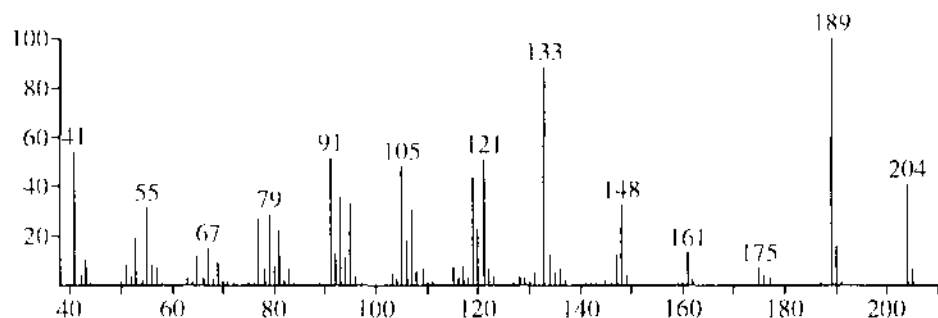
RT: 28.75 AI: 1498 KI: 1498 **Pseudowiddrene**

CAS#: 32540-28-6 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1828

CN: 1H-benzocycloheptene, 2,3,5,6,9,9a-hexahydro-1,1,7,9a-tetramethyl-, (9aS)-

Synonyms: none

Source: ref. epd. ex Larry Cool



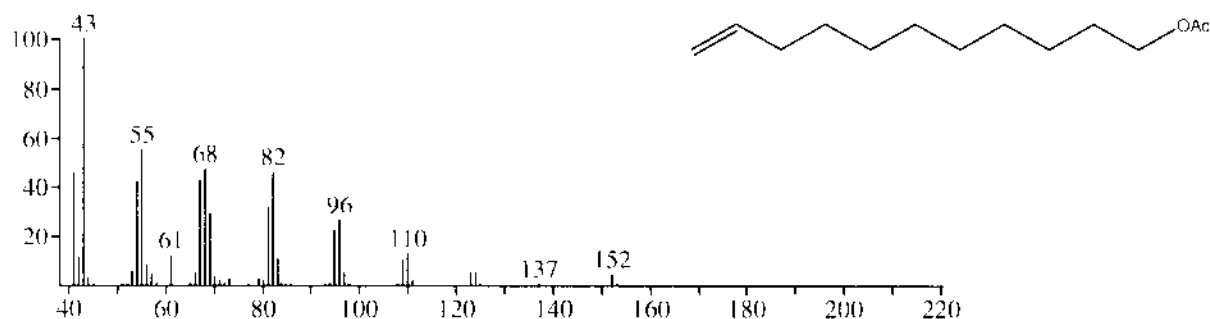
RT: 28.76 AI: 1498 KI: 1498 **Undecenol acetate <10->**

CAS#: 112-19-6 MI: C₁₃H₂₄O₂ FW: 212 MSD LIB#: 2075

CN: 10-undecen-1-ol, acetate

Synonyms: none

Source: Bedoukian Res.



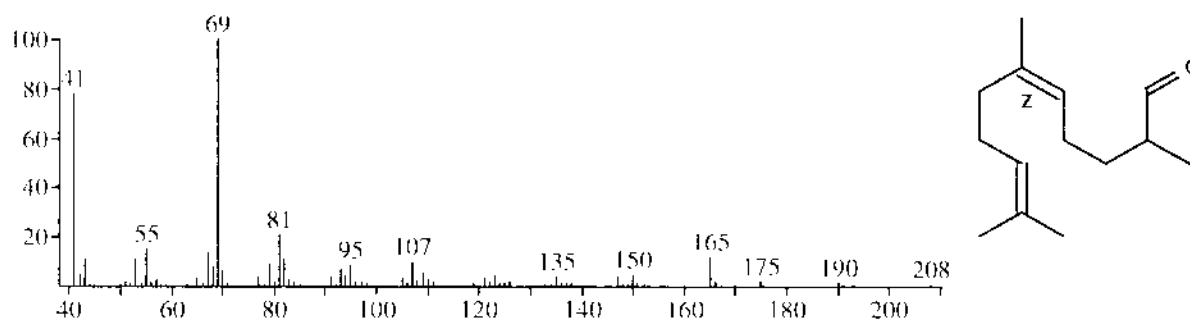
RT: 28.77 AI: 1498 KI: 1498 **Apofarnesal <(Z)-dihydro->**

CAS#: 58001-86-8 MI: C₁₄H₂₄O FW: 208 MSD LIB#: 181

CN: 5,9-undecadienal, 2,6,10-trimethyl-, (Z)-

Synonyms: none

Source: Dragoco ex Art Tucker



RT: 28.79 AI: 1499 KI: 1499 **Curzerene**

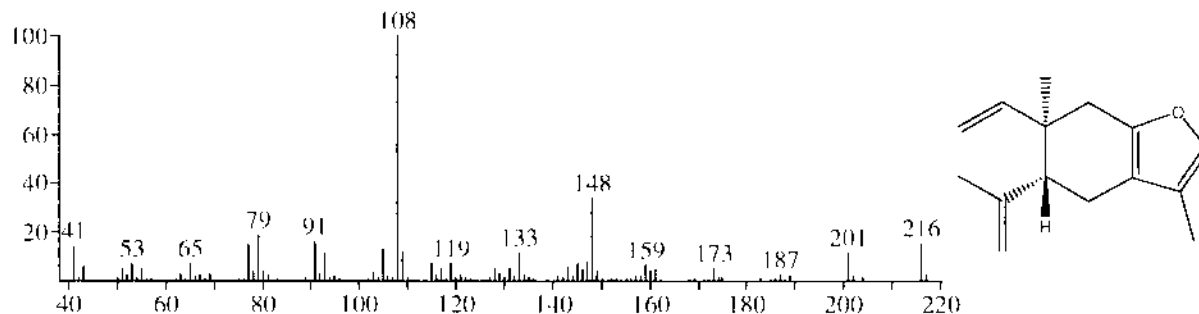
CAS#: 17910-09-7 MI: C₁₅H₂₀O FW: 216 MSD LIB#: 518

CN: benzofuran, 6-ethenyl-4,5,6,7-tetrahydro-3,6-dimethyl-5-(1-methylethenyl)-, trans-

Synonyms: isofuranogermacrene; isogermafurene; neocurzerene

Source: *Curcuma aromatica* ex Synthite Chem., India; 3.30% *Curcuma aromatica*,

FEI 7:19(1992); 1.10% *Curcuma heyneana*; 1.01% *Eugenia uniflora* (leaf)



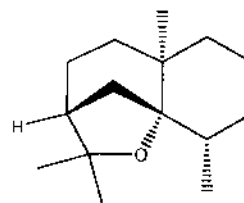
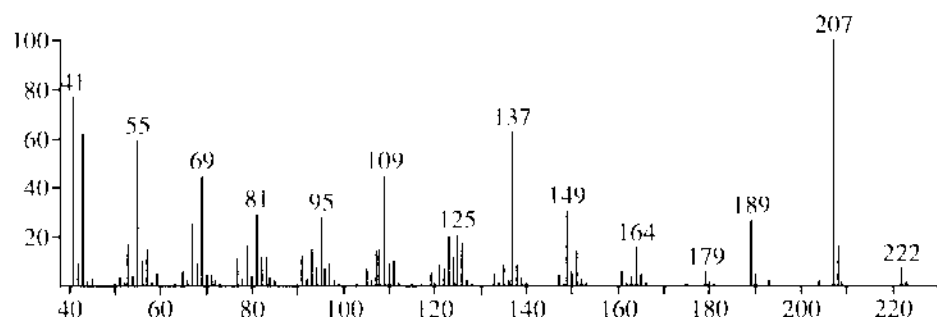
RT: 28.80 AI: 1499 KI: 1499 **Dihydroagarofuran <4-epi-cis->**

CAS#: 765307-45-7 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1913

CN: 2H-3,9a-methano-1-benzoxepin, octahydro-2,2,5a,9-tetramethyl-, (3R,5aR,9S,9aS)-

Synonyms: froggatt ether

Source: *Pseudovaria froggatee* oil ex Ian Southwell



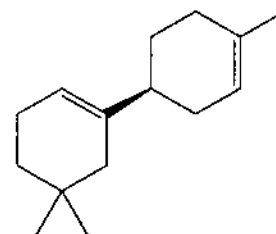
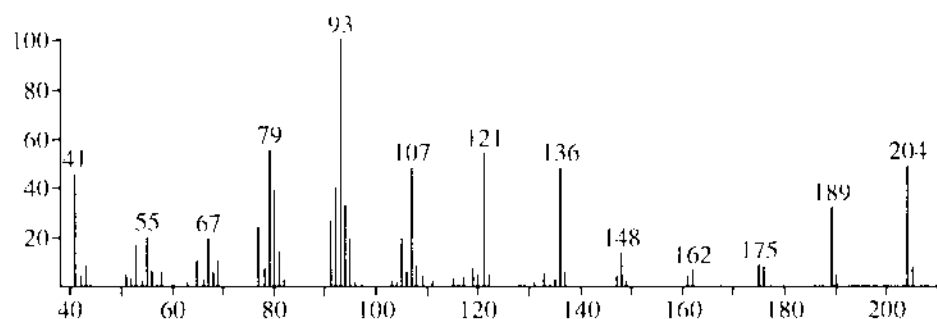
RT: 28.81 AI: 1499 KI: 1499 **Macrocarpene <β->**

CAS#: 847374-80-5 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1919

CN: cyclohexene, 5,5-dimethyl-1-[(1S)-4-methyl-3-cyclohexen-1-yl]-

Synonyms: none

Source: *Cupressus macrocarpa* leaf oil ex Larry Cool



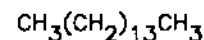
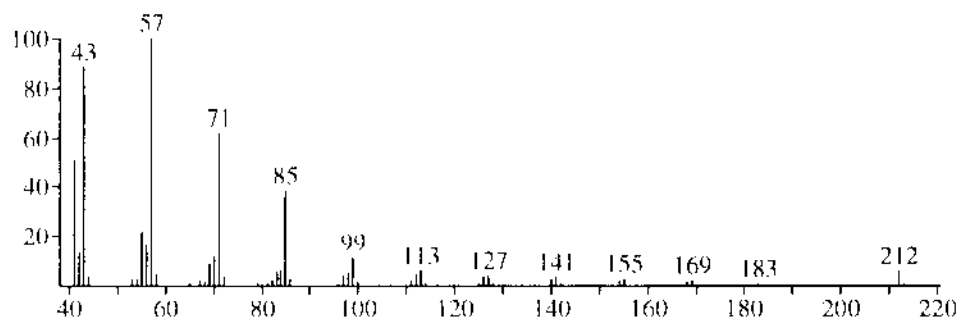
RT: 28.82 AI: 1500 KI: 1500 **Pentadecane <n->**

CAS#: 629-62-9 MF: C₁₅H₃₂ FW: 212 MSD LIB#: 95

CN: pentadecane

Synonyms: none

Source: Alltech Assoc.: 41.99% *Michelia yunnanensis*, p. 18, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong(1993); 27.52% *Magnolia purpurella*; 21.61% *Kaempferia galanga* (rhizome)



RT: 28.83 AI: 1500 KI: 1500 **Bicyclgermacrene**

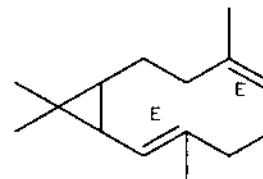
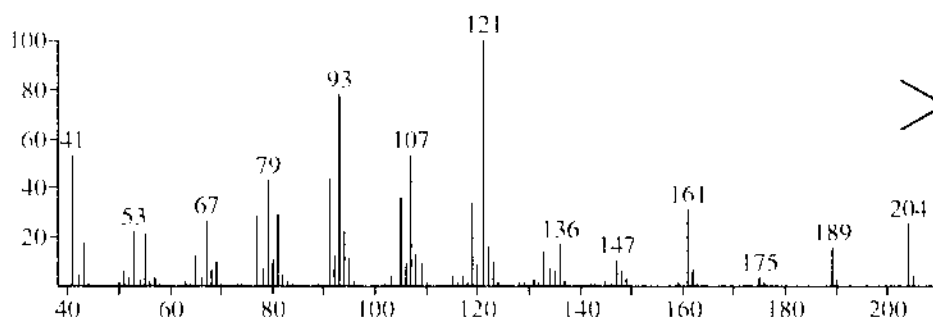
CAS#: 24703-35-3 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1359

CN: bicyclo(8.1.0)undeca-2,6-diene, 3,7,11,14-tetramethyl-, (1S-(1R*,2E,6E,10S*))-

Synonyms: none

Source: *Podocarpus*, Rima G#4 ex Don Clark; 48.00% *Idiospermum australiense*,

FFJ 7:79(1992); 37.92% *Origanum laevigatum*; 36.00% *Panax ginseng*



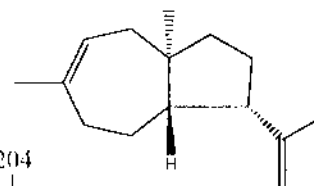
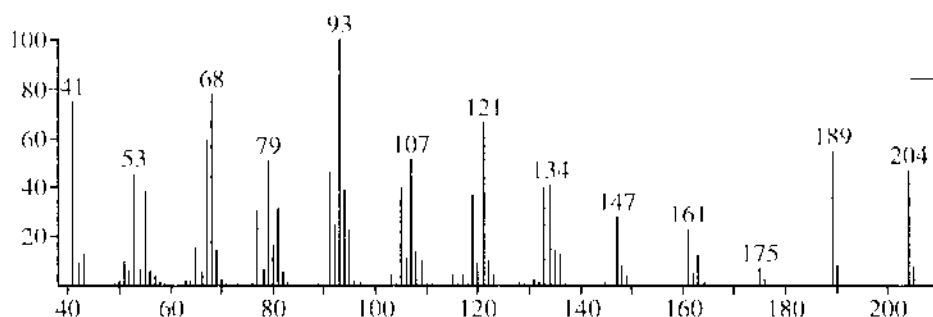
RT: 28.83 AI: 1500 KI: 1500 **Isodaucene**

CAS#: 142878-08-8 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1574

CN: azulene, 1,2,3,3a,4,7,8,8a-octahydro-3a,6-dimethyl-1-(1-methylethenyl)-, (1s,3aR,8aS)-

Synonyms: dauca-8,11-diene

Source: *Rosa rugosa* oil ex Art Tucker



RT: 28.83 AI: 1500 KI: 1500 **Muurolene <α>**

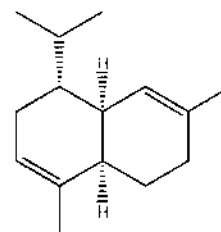
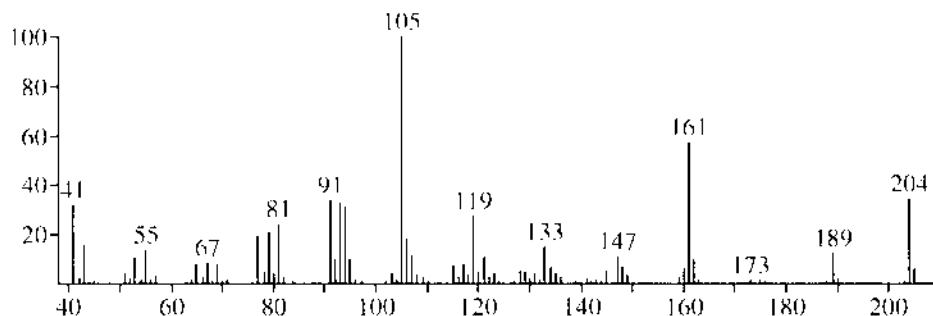
CAS#: 31983-22-9 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 907

CN: naphthalene, 1,2,4a,5,6,8a-hexahydro-4,7-dimethyl-1-(1-methylethyl)-(1a,4aa,8aa)-

Synonyms: none

Source: *Juniperus gamboana* leaf oil, RP Adams #2575; 7.28% *Santolina chamaecyparissus*,

J. Nat. Prod. 49:1143(1986); 6.00% *Mentha longifolia*; 5.78% *Chamaecyparissus obtusa*



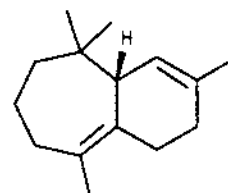
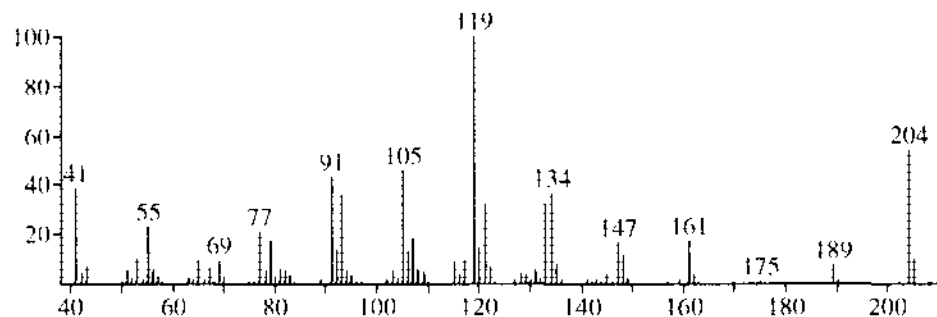
RT: 28.86 AI: 1500 KI: 1500 **Himachalene <β>**

CAS#: 1461-03-6 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 237

CN: 1H-benzocycloheptene, 2,4a,5,6,7,8-hexahydro-3,5,5,9-tetramethyl-, (R)-

Synonyms: none

Source: *Artemisia vestita* oil ex P. Weyerstahl; 43.50% *Cedrus atlantica*, JEOR 6:323(1994); 33.78% *Ambrosia artemisiifolia*; 10.10% *Artemisia vestita*



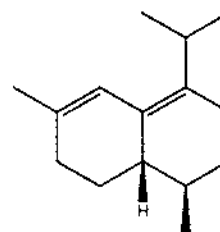
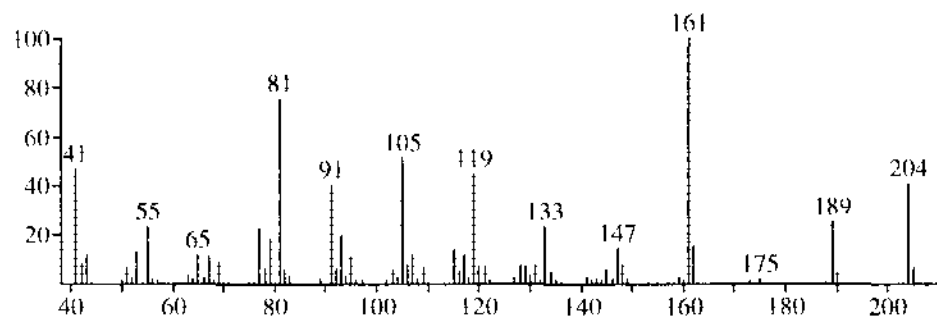
RT: 28.88 AI: 1501 KI: 1501 **Epizonarene**

CAS#: 41702-63-0 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 515

CN: naphthalene, 1,2,3,7,8,8a-hexahydro-1,6-dimethyl-4-(1-methylethyl)-(1R-cis-)

Synonyms: ent-10-epizonarene

Source: *Cupressus macnabiana* leaf oil ex Larry Cool



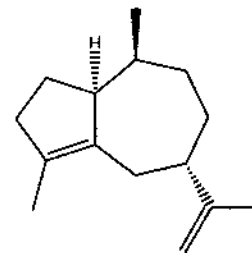
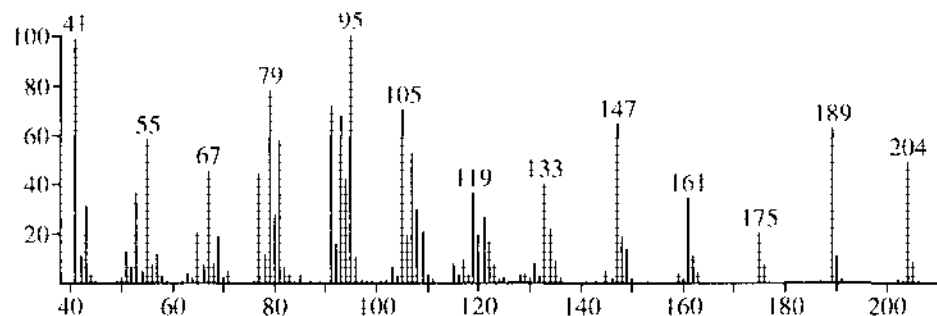
RT: 28.89 AI: 1501 KI: 1501 **Aciphyllene**

CAS#: 87745-31-1 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1642

CN: azulene, 2,3,3a,4,5,6,7,8-octahydro-1,4-dimethyl-7-(1-methylethenyl)-, (3aS,4S,7S)-

Synonyms: none

Source: Patchouli oil ex R. S. Thakur



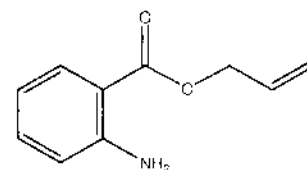
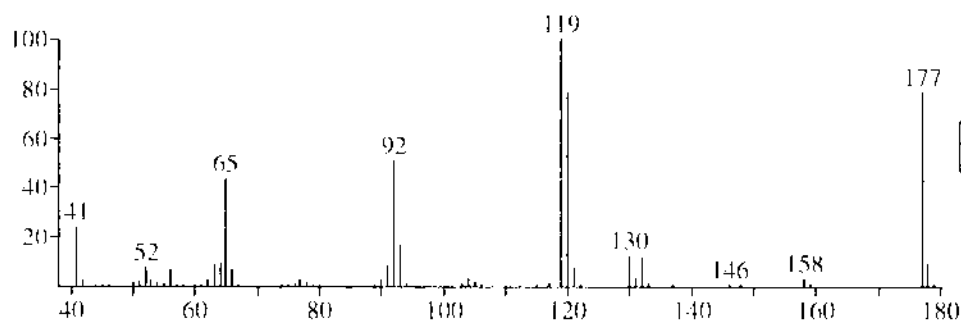
RT: 28.89 AI: 1501 KI: 1501 **Allyl anthranilate**

CAS#: 7493-63-2 MF: C₁₀H₁₁N O₂ FW: 177 MSD LIB#: 2064

CN: benzoic acid, 2-amino-, 2-propenyl ester

Synonyms: allyl 2-aminobenzoate

Source: Bedoukian Res.



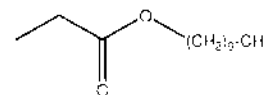
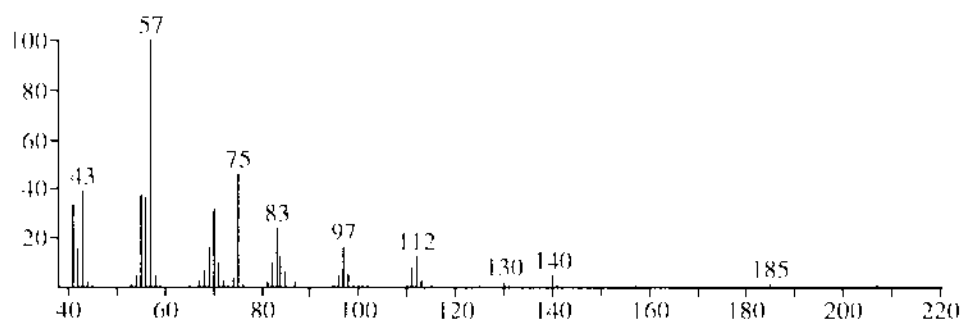
RT: 28.89 AI: 1501 KI: 1501 **Decyl propanoate**

CAS#: 5454-19-3 MF: C₁₃H₂₆O₂ FW: 214 MSD LIB#: 584

CN: propanoic acid, decyl ester

Synonyms: decyl propionate

Source: Aldrich Chem. ex Art Tucker; 0.20% *Hibiscus abelmoschus*, F&I 7:65-67(1992)



RT: 28.91 AI: 1502 KI: 1502 **Patchoulene <γ>**

CAS#: 508-55-4 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1242

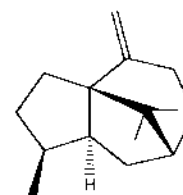
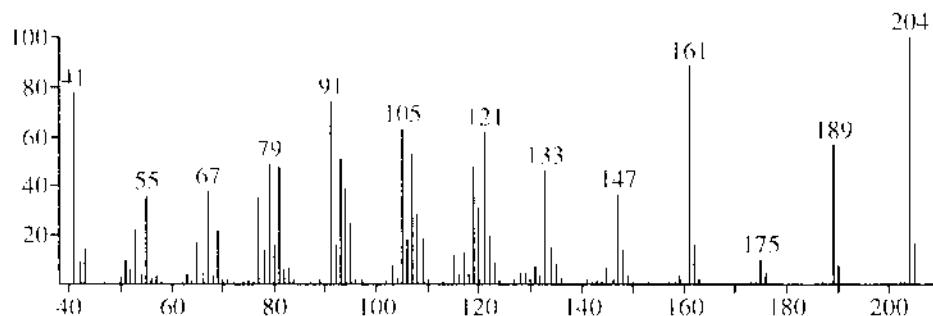
CN: 1H-3a,7-methanoazulene, octahydro-1,9,9-trimethyl-4-methylene-, (1α,3α,7α,8αβ)-

Synonyms: none

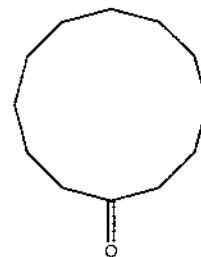
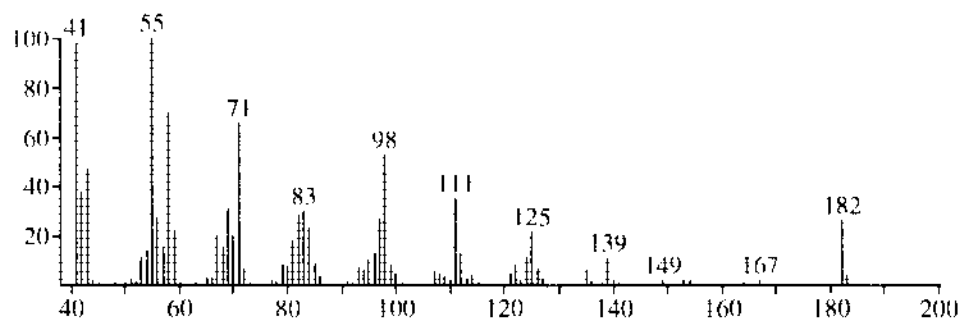
Source: Patchouli oil ex RS Thakur, India; 2.17% *Neocinnamomum delavayi*,

p. 39, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong(1993);

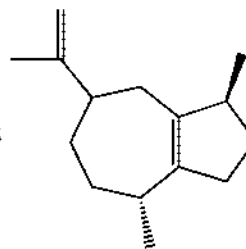
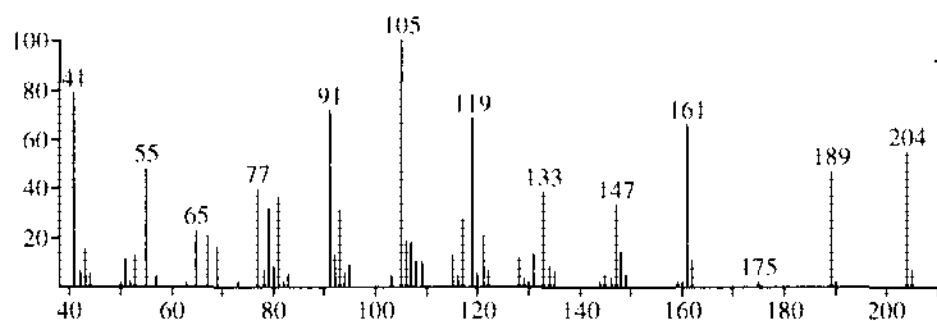
1.60% *Valeriana javanica*; 1.00% *Lippia carvioidora*



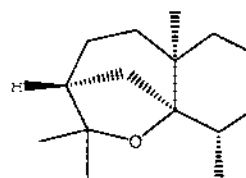
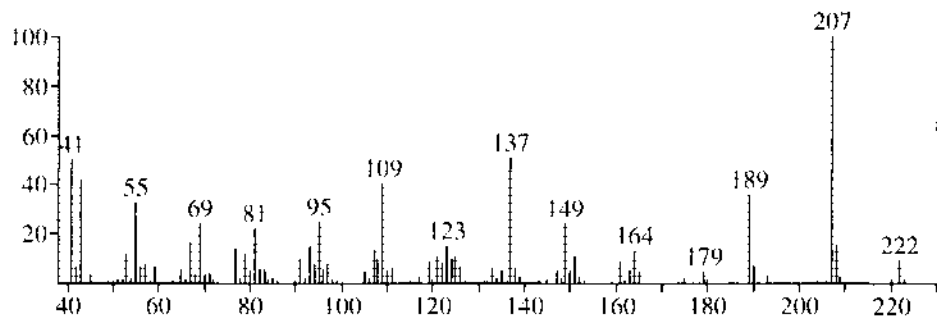
RT: 28.92 AI: 1502 KE: 1502 **Cyclododecanone**
 CAS#: 830-13-7 MF: C₁₂H₂₂O FW: 182 MSD LIB#: 1999
 CN: cyclododecanone
 Synonyms: none
 Source: Aldrich Chem. ex JI Brophy



RT: 28.92 AI: 1502 KE: 1502 **Guaiane <trans-β>**
 CAS#: 53863-54-0 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 759
 CN: azulene, 1,2,3,4,5,6,7,8-octahydro-1,4-dimethyl-7-(1-methylethenyl)-
 Synonyms: none
 Source: guaie wood oil ex R. Stipanovic, TAMU



RT: 28.95 AI: 1503 KE: 1503 **Dihydro agarofuran <β>**
 CAS#: 5956-09-2 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 131
 CN: 2H-3,9-a-methano-1-benzoxepin, octahydro-2,2,5a,9-tetramethyl-(3α,5α,9.α,9α)-
 Synonyms: deoxybaimuxinol; dihydroagarofuran, trans-
 Source: comm. Amyris leaf oil, Port au Prince, Haiti

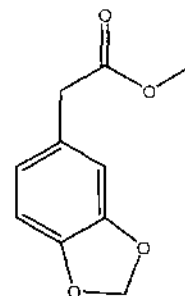
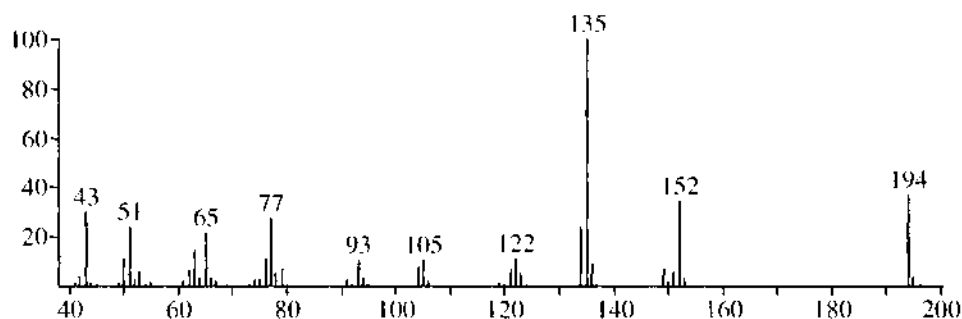


RT: 28.95 AI: 1503 KI: 1503 **Piperonyl acetate**CAS#: 326-61-4 MF: C₁₀H₁₀O₄ FW: 194 MSD LIB#: 1668

CN: 3,4-methylenedioxybenzyl acetate

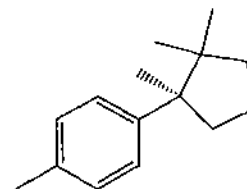
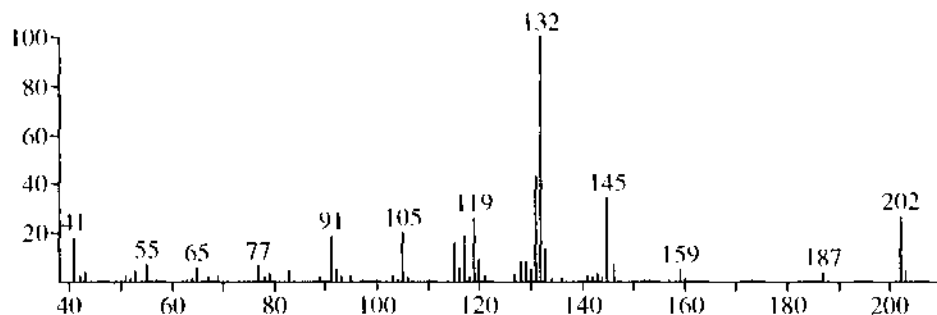
Synonyms: heliotropyl acetate

Source: Aldrich Chem.

RT: 29.00 AI: 1504 KI: 1504 **Cuparene**CAS#: 16982-00-6 MF: C₁₅H₂₂ FW: 202 MSD LIB#: 937

CN: benzene, 1-methyl-4-(1,2,2-trimethylcyclopentyl)-, (R)-

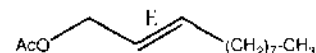
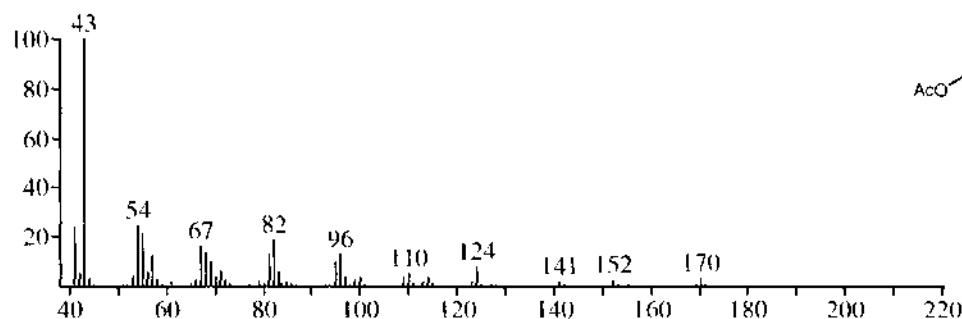
Synonyms: none

Source: *Juniperus recurva* wood oil ex J. Oda, Ag. Biol. Chem. 41:201(1977);5.00% *Dipterocarpus turbinatus*, Phytochem. 5:858(1966); 4.93% *Cupressus funebris*;1.40% *Croton eluteria*RT: 29.00 AI: 1504 KI: 1504 **Undecenol acetate <(2E)->**CAS#: 100288-67-3 MF: C₁₃H₂₄O₂ FW: 212 MSD LIB#: 2085

CN: 2-undecen-1-ol, acetate (2E)-

Synonyms: none

Source: Bedoukian Res.



RT: 29.03 AI: 1505 KI: 1505 **Cuprenene <α>**

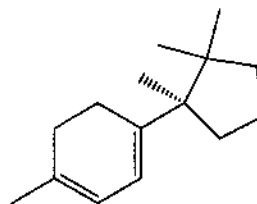
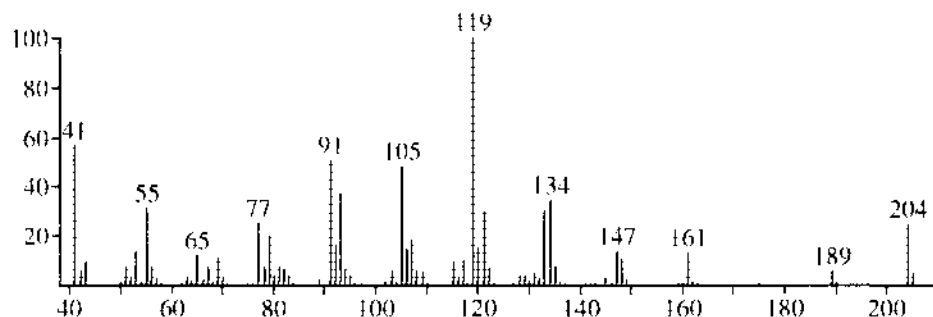
CAS#: 29621-78-1 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 835

CN: 1,3-cyclohexadiene, 1-methyl-4-(1,2,2-trimethylcyclopentyl)-

Synonyms: none

Source: *Hypericum perforatum* ex P. Weyerstahl; 3.20% *Hypericum perforatum*,

FFJ 10:365(1995); 2.70% *Widdringtonia whytei*; 0.30% *Daucus carota*



RT: 29.03 AI: 1505 KI: 1505 **Farnesene <(E,E)-α>**

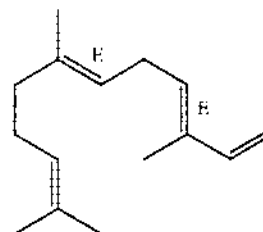
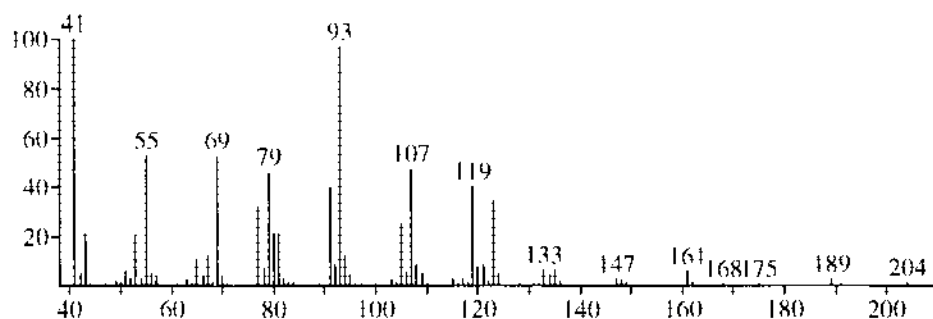
CAS#: 502-61-4 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 184

CN: 1,3,6,10-dodecatetraene, 3,7,11-trimethyl-, (E,E)-

Synonyms: none

Source: Red Delicious apples, distilled, RP Adams 5756; 26.50% *Alpinia chinensis* (flower),

JEOR 637(Nov/Dec1994); 22.00% *Hyacinthus orientalis*; 14.20% *Jasminum sambac*



RT: 29.04 AI: 1505 KI: 1505 **Bisabolene <β>**

CAS#: 495-61-4 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 466

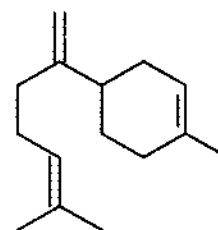
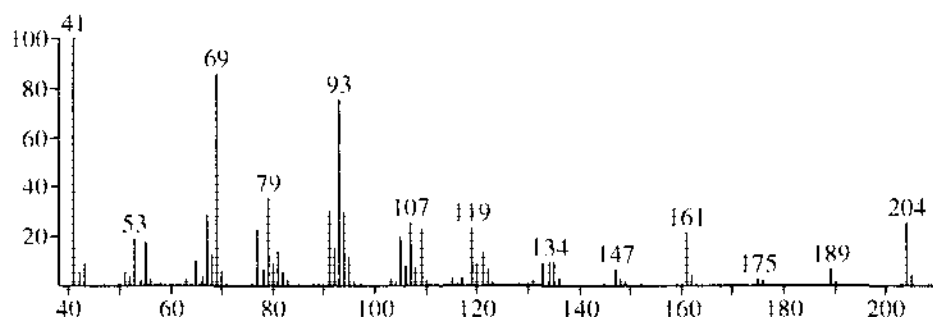
CN: cyclohexene, 1-methyl-4-(5-methyl-1-methylene-4-hexenyl)-, (S)

Synonyms: none

Source: *Copaiba* resin ex P. White, Brazil; Lemon oil: *Juniperus* species;

60.40% *Zingiber officinale*, Phytochem 23:353(1984); 52.46% *Pimpinella anisum*;

27.67% *Lavandula multifida*



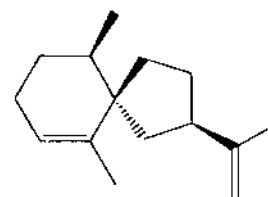
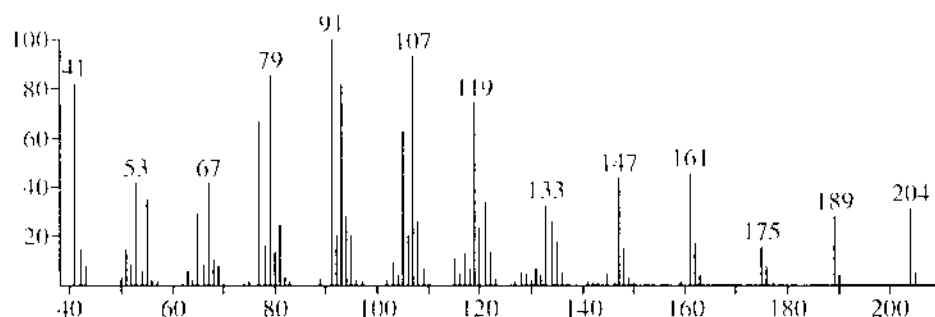
RT: 29.05 AI: 1505 KI: 1506 **Premnaspirodiene**

CAS#: 82189-85-3 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1661

CN: spiro[4.5]dec-6-ene, 6,10-dimethyl-2-(1-methylethenyl)-(2R, 5S, 10R)-

Synonyms: spirovetivene

Source: *Lepechina bullata* oil ex E. Stahl Biskup



RT: 29.09 AI: 1506 KI: 1507 **Bisabolene <(Z)-α->**

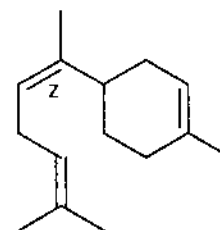
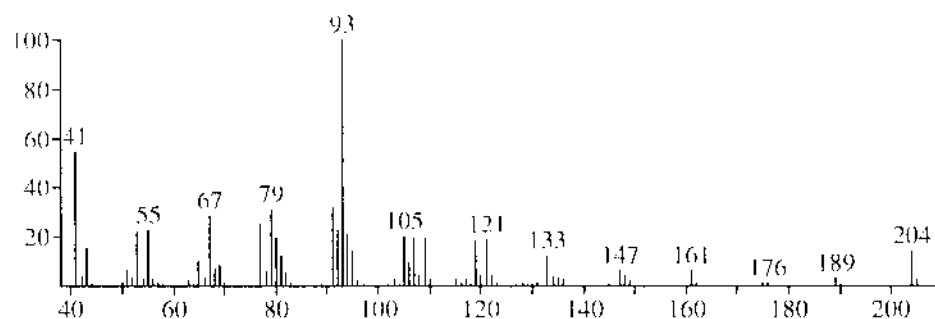
CAS#: 70332-15-9 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1221

CN: cyclohexene, 4-(1,5-dimethyl-1,4-hexadienyl)-1-methyl-, (Z)-

Synonyms: none

Source: opoponax oil ex Suzanne Kral, HfF; 5.00% *Commiphora erythraea*.

Phytochem 21:677(1982); 1.50% *Alpinia chinensis*; 0.20% *Lippia graveolens*



RT: 28.96 AI: 1503 KI: 1503 **Chamigrene <α->**

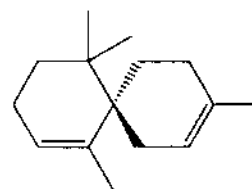
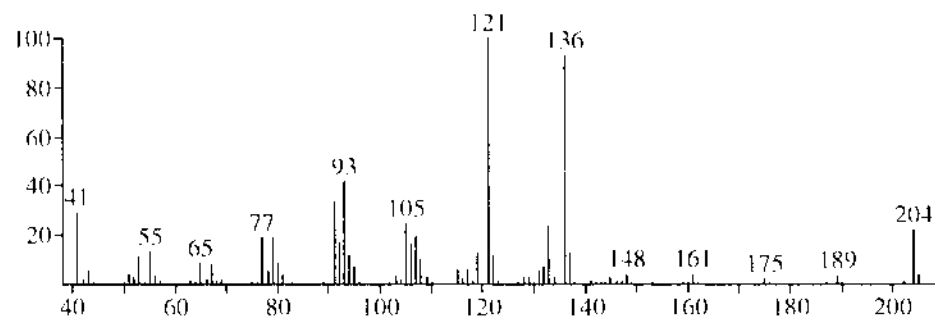
CAS#: 19912-83-5 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 391

CN: spiro[5.5]undeca-1,8-diene, 1,5,5,9-tetramethyl-, (R)-

Synonyms: none

Source: cedarwood oil (*Juniperus ashei*) ex Texarome, Leakey, TX;

0.20% *Croton eluteria*, FFL 6:193(1991)



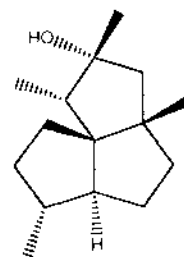
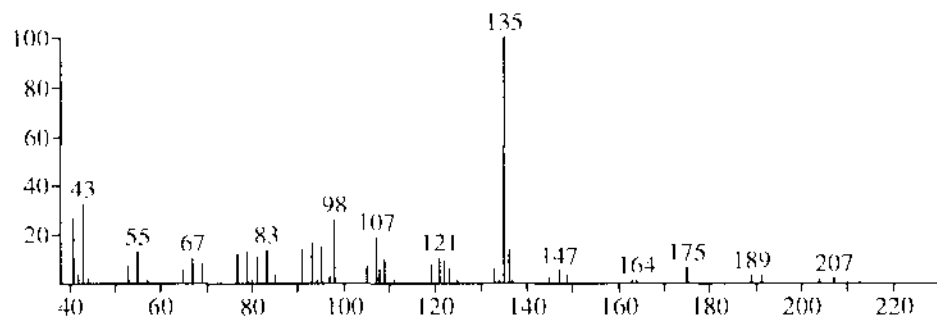
RT: 29.12 AI: 1507 KI: 1507 **Silphiperfolan-6- α -ol**

CAS#: 203714-22-1 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 641

CN: cyclopenta(c)pentalen-2-ol, decahydro-1,2,3a,6-tetramethyl-, (1S,2R,3aS,5aS,6R,8aR)-

Synonyms: none

Source: *Echinopos giganteus* oil ex P. Weyerstahl



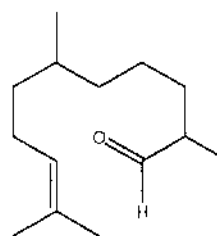
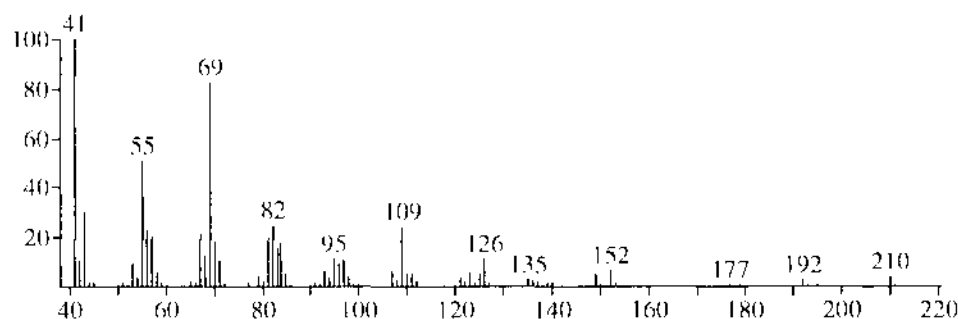
RT: 29.18 AI: 1508 KI: 1509 **Farnal**

CAS#: 141-13-9 MF: C₁₄H₂₆O FW: 210 MSD LIB#: 704

CN: 9-undecenal, 2,6,10-trimethyl-

Synonyms: adoxal

Source: H & R Chem. ex Art Tucker



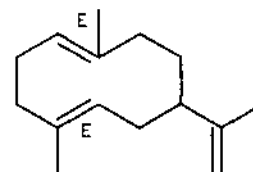
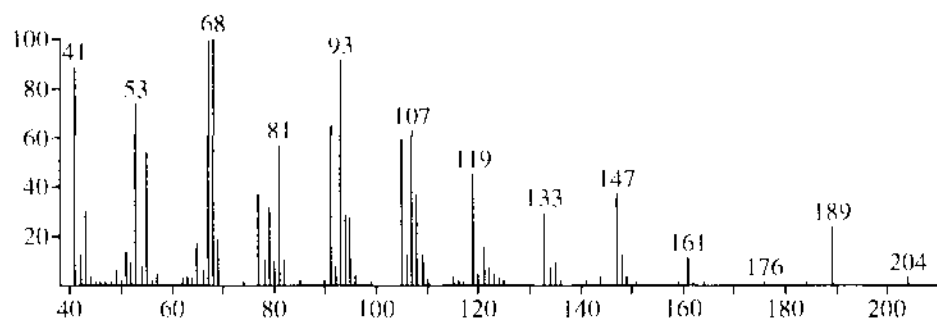
RT: 29.18 AI: 1508 KI: 1509 **Germaerene A**

CAS#: 28387-44-2 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 744

CN: 1,5-cyclodecadiene, 1,5-dimethyl-8-(1-methylethenyl)-, (S-(E,E))-

Synonyms: none

Source: *Carum carvi*, hydrocarbons ex E. Stahl Biskup; 18.40% *Aristolochia impudica*, JEOR 8:573(1996); 1.52% *Eugenia uniflora* (leaf); 1.20% *Aristolochia gigantea*



RT: 29.19 AI: 1509 KI: 1509 **Lavandulyl isovalerate**

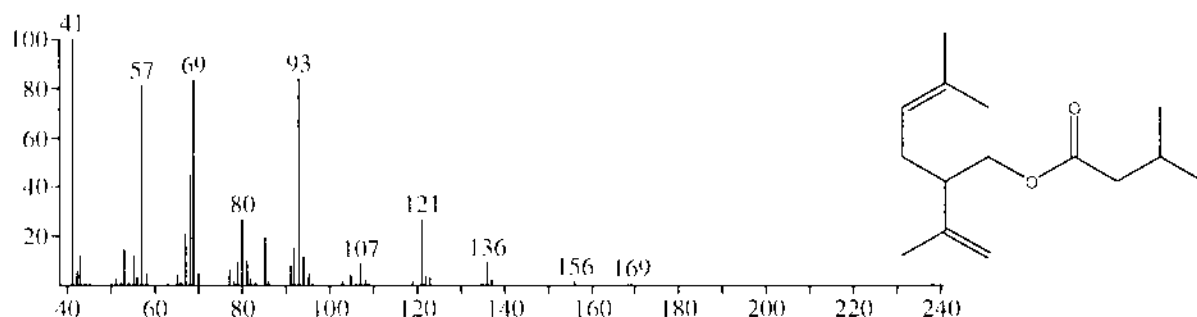
CAS#: 51117-21-6 MF: C₁₅H₂₆O₂ FW: 238 MSD LIB#: 1153

CN: butanoic acid, 3-methyl-, 5-methyl-2-(1-methylethenyl)-4-hexenyl ester

Synonyms: lavandulol isovalerate

Source: *Nidorella vesedifolia* oil ex P. Weyerstahl; 23.66% *Valeriana officinalis* (picked flowers),

Dragoco Rept. 3-31(1992); 21.16% *Valeriana officinalis* (living flowers)



RT: 29.20 AI: 1509 KI: 1509 **Bulnesene <α>**

CAS#: 3691-11-0 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1244

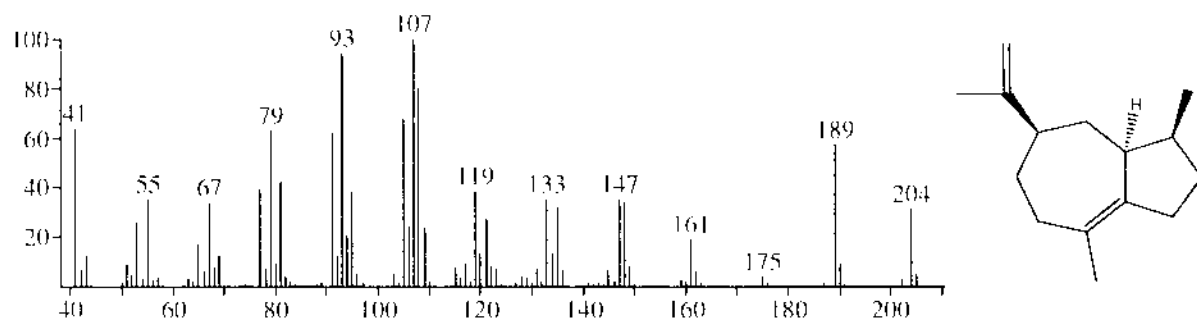
CN: azulene, 1,2,3,5,6,7,8,8a-octahydro-1,4-dimethyl-7-(1-methylethenyl)-(1S-(1α,7α,8αβ))-

Synonyms: guaione, δ-; guaia-1(10),11-diene

Source: patchouli oil ex R.S. Thakur; 25.00% *Pogostemon cablin* (Indonesia),

p. 247, in: Essential Oils, 1st. Mookherjee, et al., Allured Publ. Corp., U.S.A.(1981);

22.28% *Lichi sinensis*; 19.67% *Pogostemon cablin*



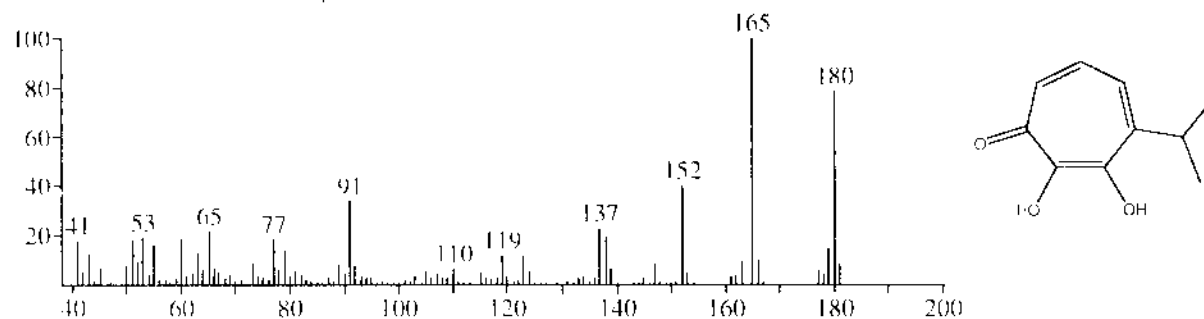
RT: 29.20 AI: 1509 KI: 1509 **Thujaplicinol <α>**

CAS#: 16643-33-7 MF: C₁₀H₁₂O₃ FW: 180 MSD LIB#: 1890

CN: 2,4,6-cycloheptatrien-1-one, 2,3-dihydroxy-4-(1-methylethyl)-

Synonyms: none

Source: ref. cpd. ex Larry Cool



RT: 29.22 AI: 1509 KI: 1510 **Tridecanal**

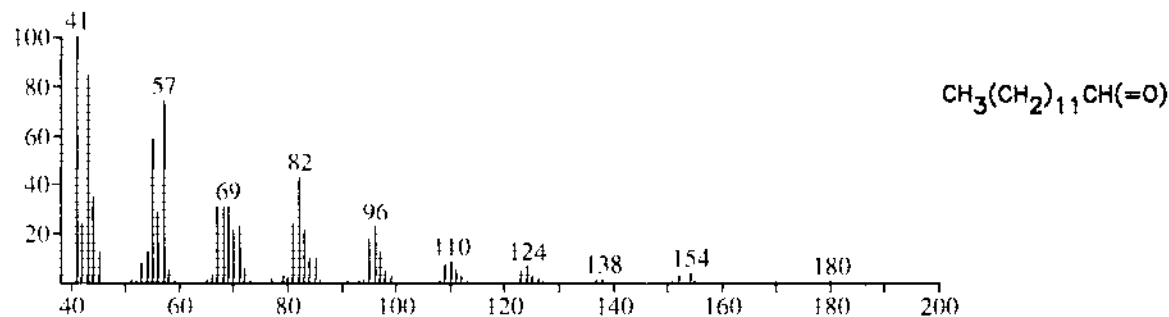
CAS#: 10486-19-8 MF: C₁₃H₂₆O FW: 198 MSD LIB#: 1513

CN: tridecanal

Synonyms: none

Source: Aldrich Chem. ex Art Tucker; 4.05% *Coriandrum sativum*, J. Sci. Food Agric. 27:721(1976);

0.95% *Daphne genkwa*; 0.92% *Asparagus officinalis* (stem)



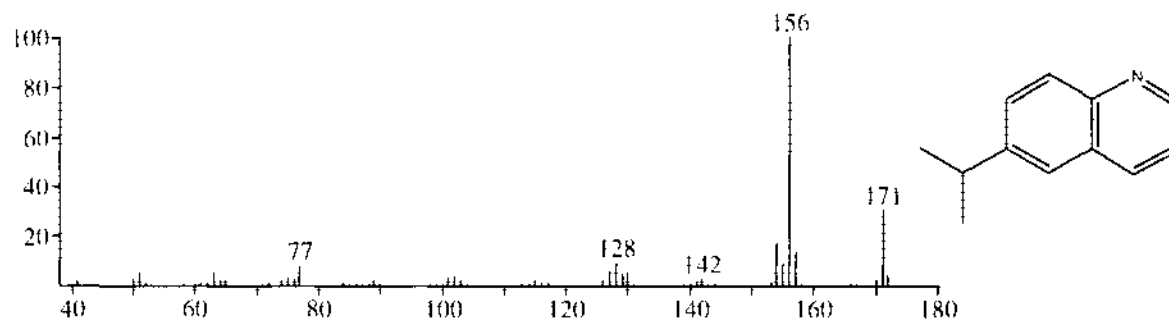
RT: 29.23 AI: 1510 KI: 1510 **Quinoline <6-isopropyl>**

CAS#: 135-79-5 MF: C₁₂H₁₃N FW: 171 MSD LIB#: 1355

CN: quinoline, 6-(1-methylethyl)-

Synonyms: none

Source: Pfaltz & Bauer ex Art Tucker



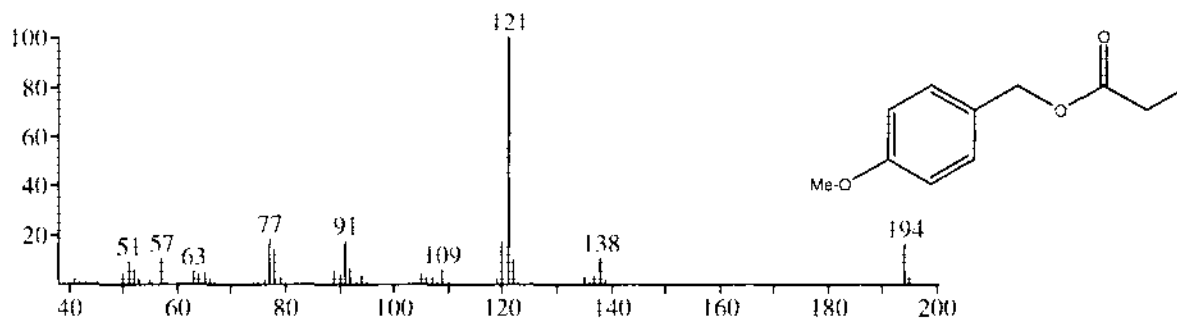
RT: 29.26 AI: 1510 KI: 1511 **Anisyl propanoate**

CAS#: 7549-33-9 MF: C₁₁H₁₄O₃ FW: 194 MSD LIB#: 177

CN: benzenemethanol, 4-methoxy-, propanoate

Synonyms: anisyl propionate

Source: Aldrich



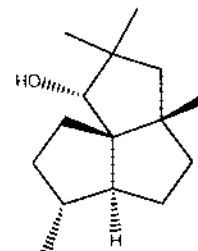
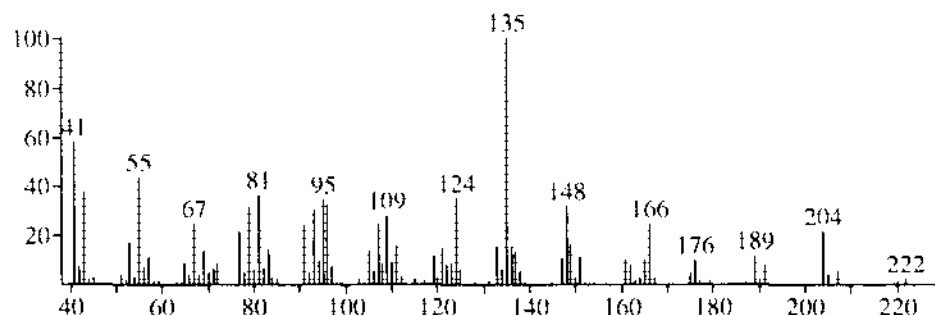
RT: 29.26 AI: 1510 KI: 1511 **Cameroonan-7- α -ol**

CAS#: 210482-75-0 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 633

CN: cyclopenta(c)pentalen-1-ol, decahydro-2,2,3a,6-tetramethyl-, (1R,3aS,5aS,6R,8aS)-

Synonyms: none

Source: *Echinopos giganteus* ex P. Weyerstahl



RT: 29.27 AI: 1511 KI: 1511 **Lavandulyl 2-methyl butanoate**

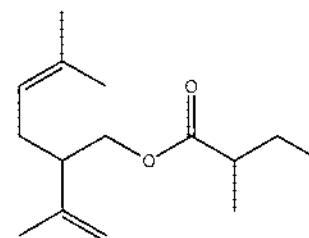
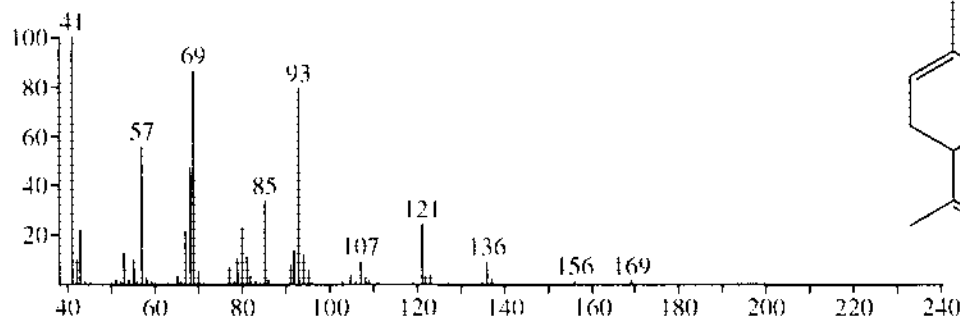
CAS#: 147044-46-0 MF: C₁₅H₂₆O₂ FW: 238 MSD LIB#: 1154

CN: butanoic acid, 2-methyl-, 5-methyl-2-(1-methylethenyl)-4-hexenyl ester

Synonyms: lavandulyl 2-methyl butyrate

Source: *Nidorella resedifolia* oil ex P. Weyerstahl: 2.41% *Valeriana officinalis* (living flower),

Dragoco Rept. 3-31(1991); 2.32% *Valeriana officinalis* (picked flower)



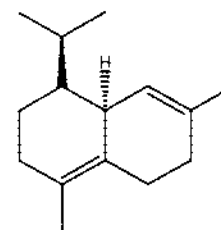
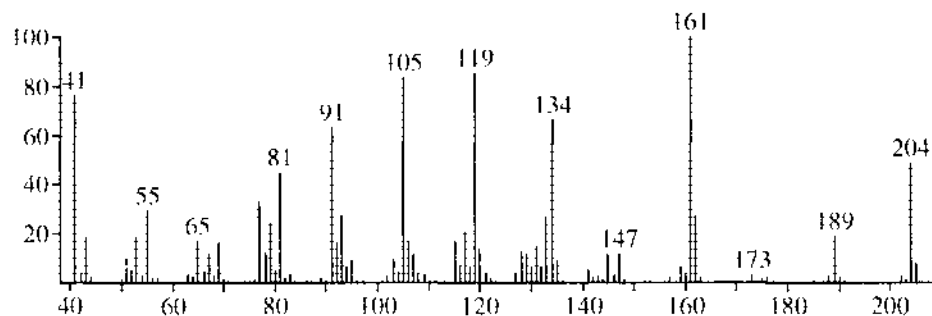
RT: 29.29 AI: 1511 KI: 1512 **Amorphene δ-**

CAS#: 189165-79-5 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1298

CN: naphthalene, 1,2,3,5,6,8a-hexahydro-4,7-dimethyl-1-(1-methylethyl)-, (1S,8aS)-

Synonyms: none

Source: Manuka oil ex W.A. Koenig; vetiver oil, Haiti



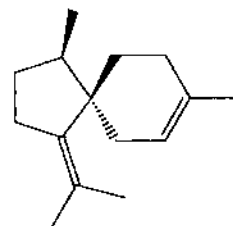
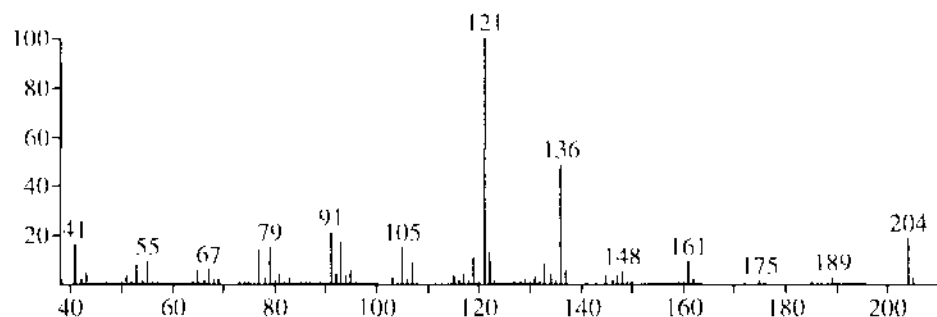
RT: 29.31 AI: 1512 KI: 1512 **Alaskene < α >**

CAS#: 28400-12-6 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 616

CN: spiro[4.5]dec-7-ene, 1,8-dimethyl-4-(1-methylethylidene-, (1R-trans)-

Synonyms: γ -acoradiene

Source: *Widdringtonia whytei* wood oil ex A.B. Wood; 0.10% *Widdringtonia whytei*, FEI 3:105(1988)



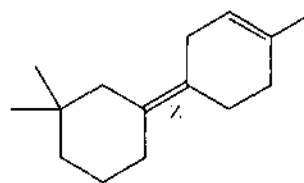
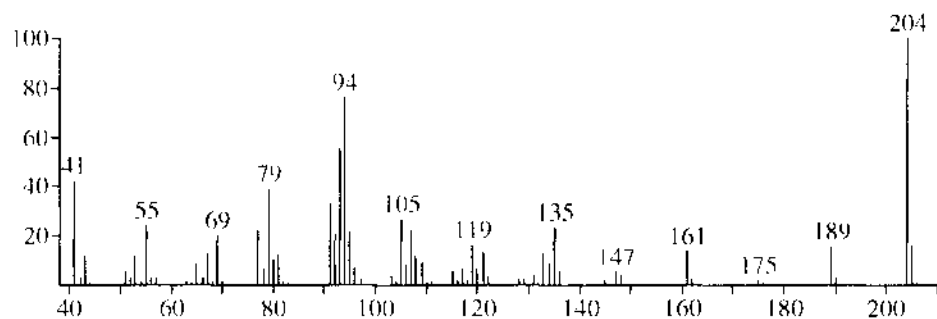
RT: 29.31 AI: 1512 KI: 1512 **Macrocarpene <(Z)- γ >**

CAS#: 847374-81-6 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1925

CN: cyclohexene, 4-(3,3-dimethylcyclohexylidene)-1-methyl-, (4Z)-

Synonyms: none

Source: *Cupressus macrocarpa* leaf oil ex Larry Cool



RT: 29.35 AI: 1513 KI: 1513 **Cadinene < γ >**

CAS#: 39029-41-9 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 832

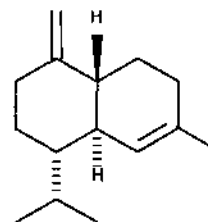
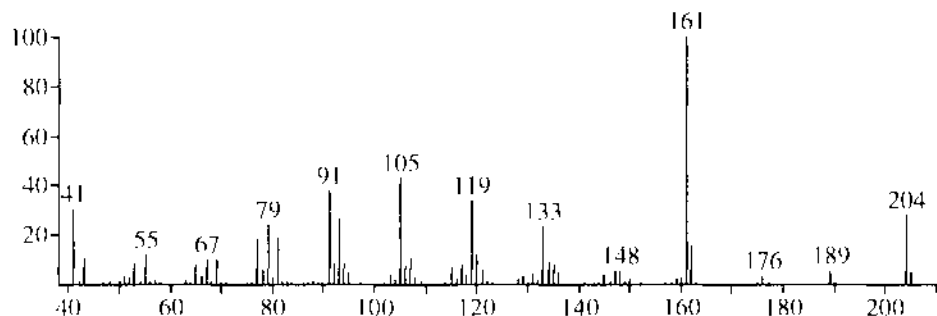
CN: naphthalene, 1,2,3,4,4a,5,6,8a-octahydro-7-methyl-4-methylene-1-(1-methylethyl)-, (1 α ,4 $\alpha\beta$,8 $\alpha\alpha$)-

Synonyms: none

Source: *Hymenaea* resin ex Jean Langenheim; common in conifers;

13.34% *Spilanthes acmella*, JEOR 3:369 (1991); 12.47% *Chamaecypariss obtusa*;

10.14% *Ocimum canum* (camphor type)



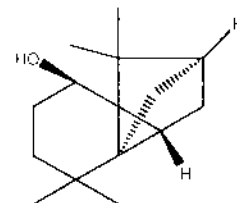
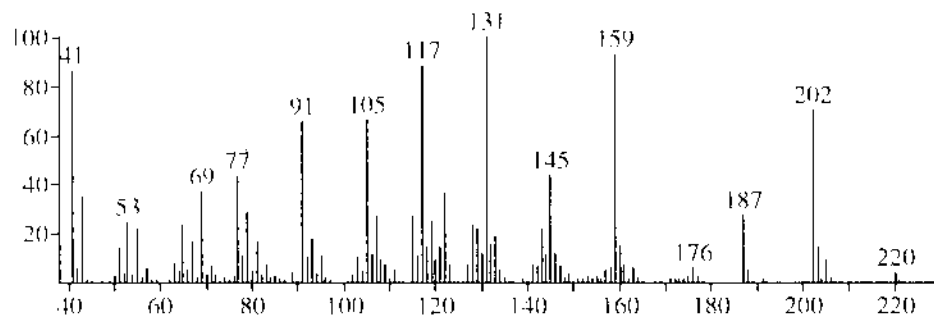
RT: 29.35 AI: 1513 KI: 1513 **Cycloisolongifol-5-ol <trans>**

CAS#: 74841-81-9 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 535

CN: 2,3b-methano-3bH-cyclopenta(1,3)cyclopropan(1,2)benzen-4-ol,
octahydro-7,7,8,8-tetramethyl-, (2S, (2 α ,3 α ,3 β ,4 β ,7 α R⁺))-

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl



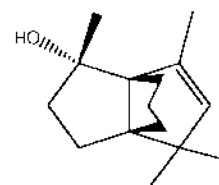
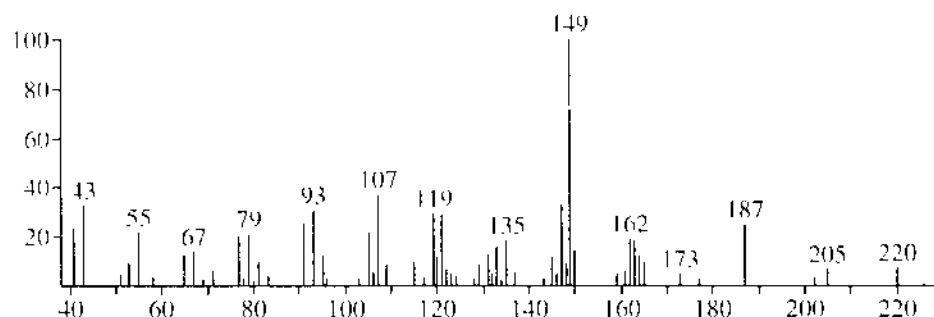
RT: 29.35 AI: 1513 KI: 1513 **Modhephen-8- β -ol**

CAS#: 210482-74-9 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 634

CN: 11,4H-3a,6a-propanopentalen-1-ol, 2,3-dihydro-1,4,4,6-tetramethyl-, (1S,3aS,6aR)-

Synonyms: none

Source: *Echinopos giganteus* oil ex P. Weyerstahl



RT: 29.40 AI: 1514 KI: 1515 **Bisabolene <(Z)- γ >**

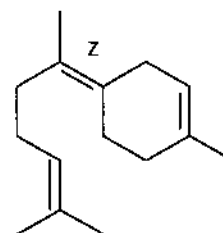
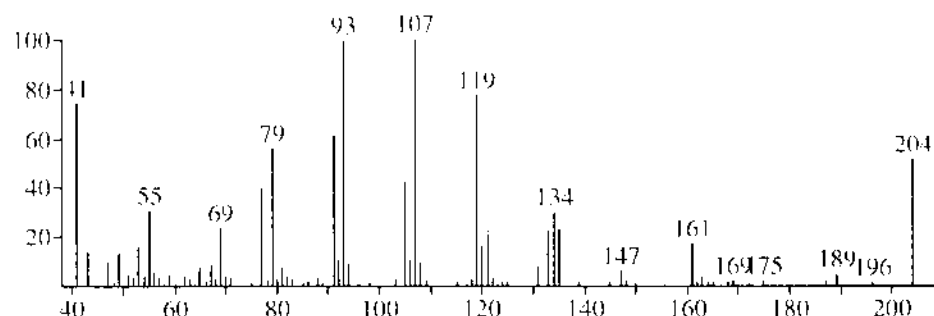
CAS#: 13062-00-5 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 358

CN: cyclohexene, 4-(1,5-dimethyl-4-hexenyl)-1-methyl-, (Z)-

Synonyms: cis- γ -bisabolene

Source: carrot root oil ex D. Senalik; 7.00% *Zingiber officinale*, Perf. Flav, 13:69(1988);

2.30% *Psidium guineense* (leaf); 1.49% *Psidium guajava*



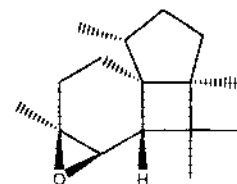
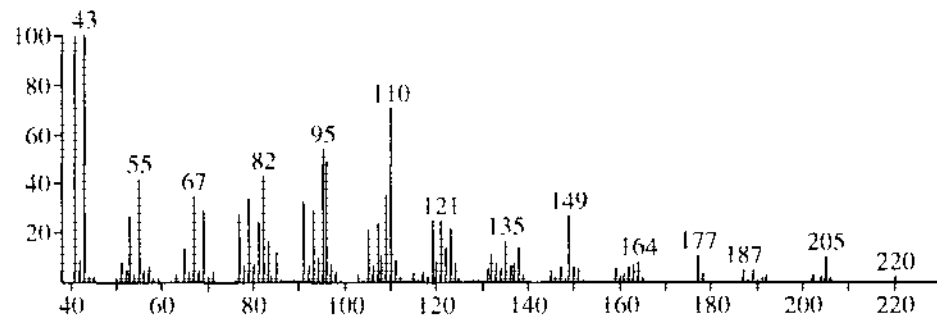
RT: 29.40 AI: 1514 KI: 1515 **Italicene epoxide <iso>**

CAS#: 104264-60-0 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 888

CN: cyclopenta(2',3')cyclobuta(1',2':3,4)benz(1,2-b)oxirene, decahydro-2,2,5,7a-tetramethyl-(1aα,1bβ,2aα,5β,5aS*,7aα)-

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl



RT: 29.41 AI: 1514 KI: 1515 **Cubebol**

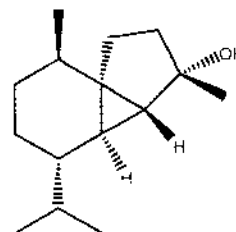
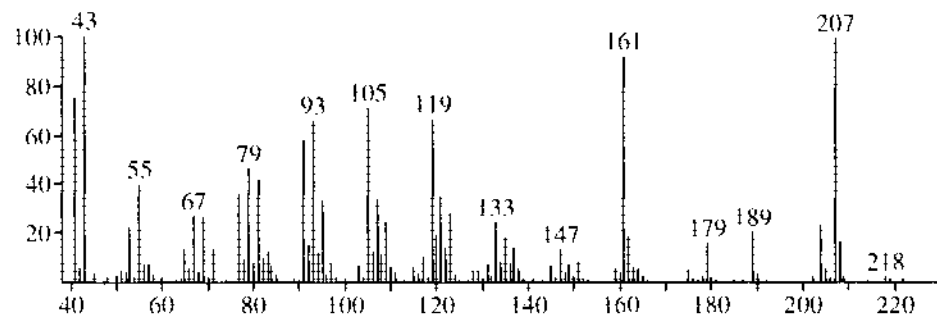
CAS#: 23445-02-5 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 258

CN: 1H-cyclopenta(1,3)cyclopropa(1,2)benzen-3-ol, octahydro-3,7-dimethyl-4-(1-methylethyl)-, (3S-(3a,3aβ,3bu,4a,7β,7aS*))-

Synonyms: cubeb camphor

Source: Ayon oil ex P. Weyerstahl: 10.00% *Piper cubeba*, Perf. Flav. 5:6(1980);

3.50% *Brachylaena hutchinsii*; 1.05% *Aydendron barbeyana*



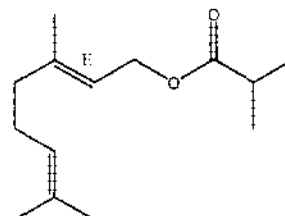
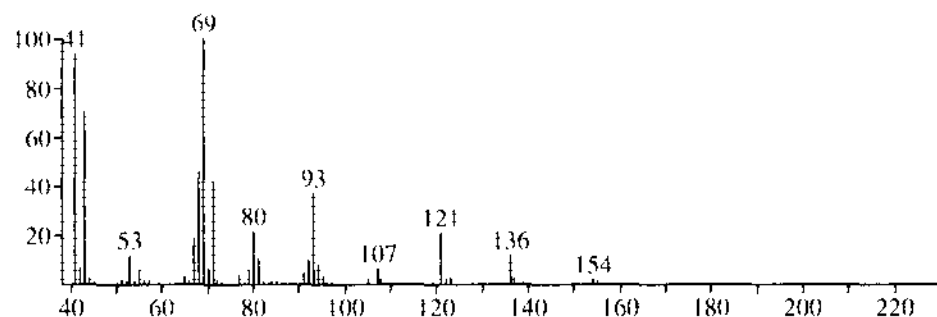
RT: 29.41 AI: 1514 KI: 1515 **Geranyl isobutanoate**

CAS#: 2345-26-8 MF: C₁₄H₂₄O₂ FW: 224 MSD LIB#: 740

CN: propanoic acid, 2-methyl-, 3,7-dimethyl-2,6-octadienyl ester, (E)-

Synonyms: geranyl isobutyrate; geraniol isobutanoate

Source: Bedoukian Res. ex Art Tucker



RT: 29.42 AI: 1514 KI: 1515 **Curcumene <β>**

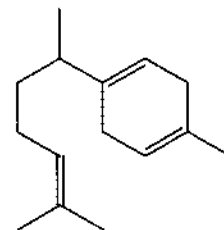
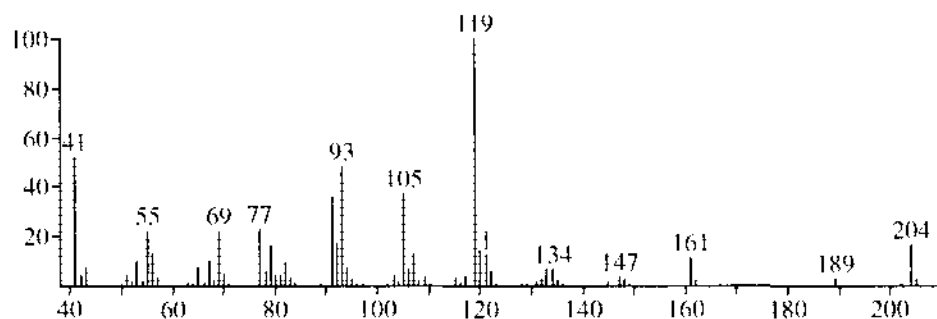
CAS#: 28976-67-2 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 519

CN: 1,4-cyclohexadiene, 1-(1-1,5-dimethyl-4-hexenyl)-4-methyl-

Synonyms: none

Source: *Curcuma aromatica* oil ex Synthite Chem. Co., India:

25.5% *Curcuma aromatica*, FFJ 7:19(1992); *Cedrela odorata*; 5.60% *Curcuma longa*



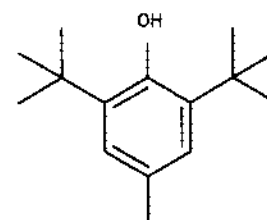
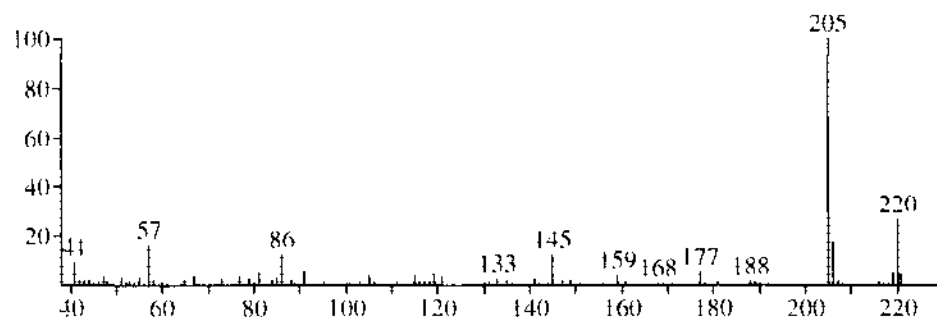
RT: 29.43 AI: 1514 KI: 1515 **Butylated hydroxytoluene**

CAS#: 128-37-0 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 842

CN: bis(1,1-dimethylethyl)-4-methylphenol <2,6>

Synonyms: BHT; ionol

Source: anti-oxidant in β-ionone, Aldrich Chem.



RT: 29.44 AI: 1515 KI: 1516 **Sesquicineole**

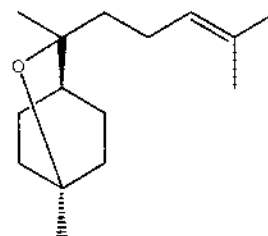
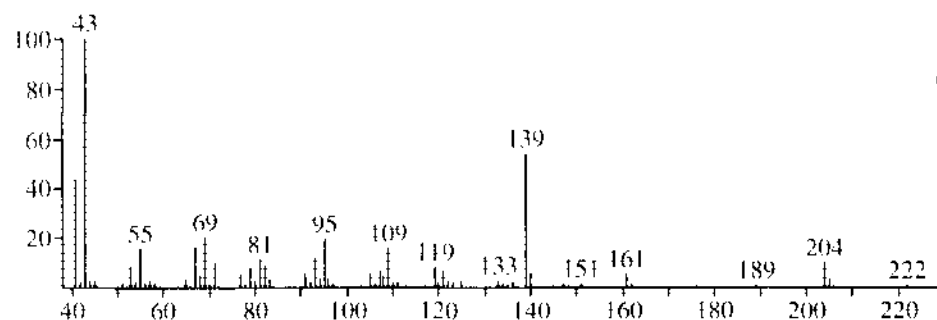
CAS#: 90131-02-5 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 437

CN: 2-oxabicyclo(2.2.2)octane, 1,3-dimethyl-3-(4-methyl-3-pentenyl)-

Synonyms: none

Source: *Chrysanthemum pulchellus* oil ex Rick Estell:

2.90% *Aydedendron barbeyana*, FFJ 4:93(1989); 1.20% *Boronia megastigma*



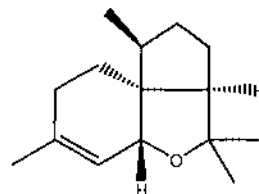
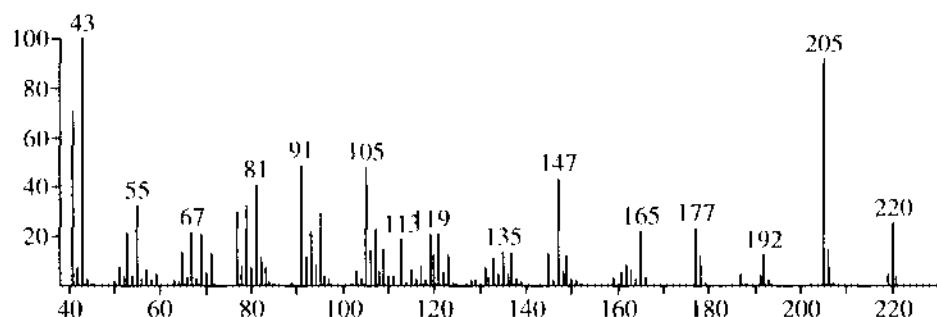
RT: 29.45 AI: 1515 KI: 1516 **Italicene ether <10-epi->**

CAS#: 104265-25-0 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 976

CN: 1H,9H-cyclopenta(c)benzofuran, 2,3,3a,4,5a,8-hexahydro-1,4,4,7-tetramethyl-(1R,3aS,5aS,9aR)-

Synonyms: none

Source: *Lantana camara* oil ex P. Weyerstahl



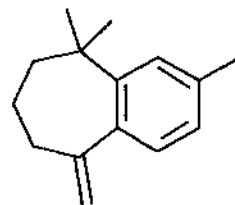
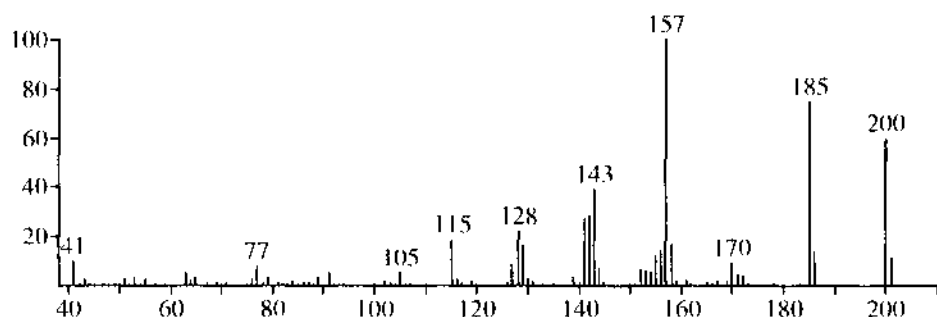
RT: 29.48 AI: 1516 KI: 1517 **Himachalene <α-dehydro-ar->**

CAS#: 78204-62-3 MF: C₁₅H₂₀ FW: 200 MSD LIB#: 241

CN: 5H-benzocycloheptene, 6,7,8,9-tetrahydro-2,9,9-trimethyl-5-methylene-

Synonyms: none

Source: *Artemisia vestita* oil ex P. Weyerstahl



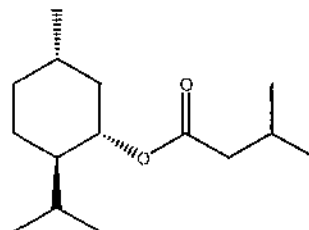
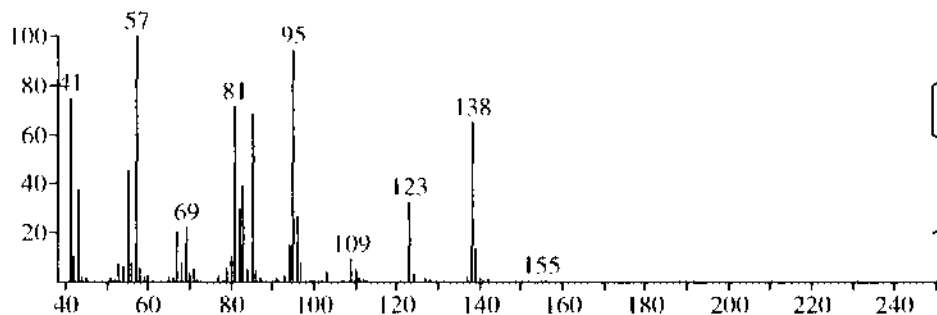
RT: 29.50 AI: 1516 KI: 1517 **Menthyl isovalerate**

CAS#: 28221-20-7 MF: C₁₅H₂₈O₂ FW: 240 MSD LIB#: 1085

CN: butanoic acid, 3-methyl-, (1R,2S,5R)-5-methyl-2-(1-methylethyl)cyclohexyl ester

Synonyms: menthol isovalerate; menthyl isopentanoate

Source: K & K Chem. ex Art Tucker



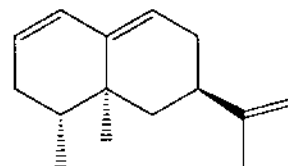
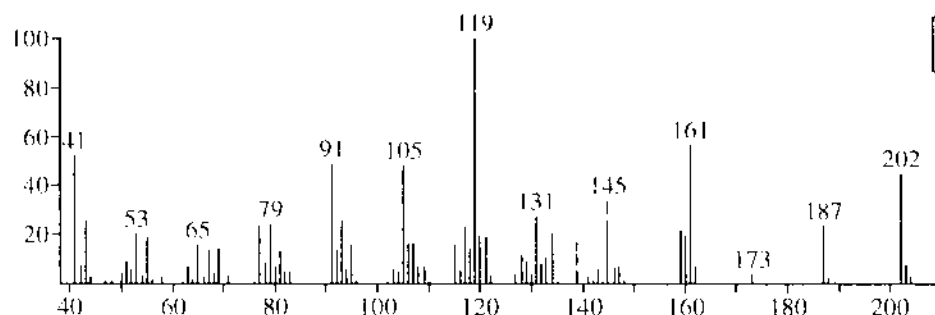
RT: 29.53 AI: 1517 KI: 1518 **Nootkatene**

CAS#: 5090-61-9 MF: C₁₅H₂₂ FW: 202 MSD LIB#: 1569

CN: naphthalene, 1,2,6,7,8,8a-hexahydro-1,8a-dimethyl-7-(1-methylethenyl)-

Synonyms: none

Source: Vetiver oil ex Berge ex Mark Dafforn



RT: 29.54 AI: 1517 KI: 1518 **Myristicin**

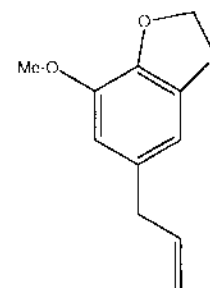
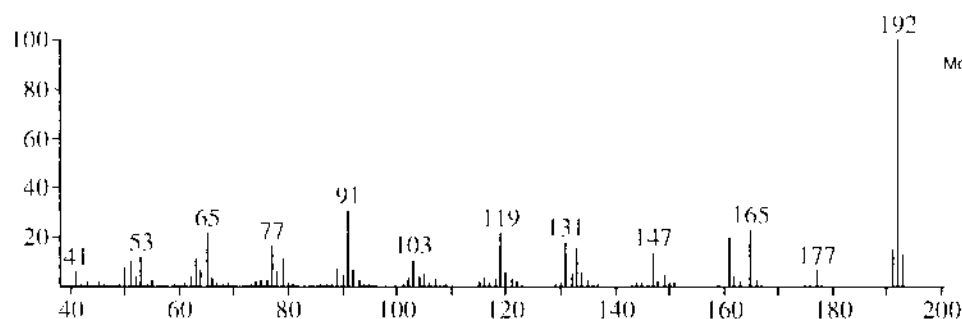
CAS#: 607-91-0 MF: C₁₁H₁₂O₃ FW: 192 MSD LIB#: 1235

CN: 1,3-benzodioxole, 4-methoxy 6-(2-propenyl)-

Synonyms: none

Source: distillation of parsley leaves, RP Adams #5440; 69.99% *Lindera neesiana* (branch).

JEOR 7:695(1995); *Bunium cylidricum* (seed); 60.50% *Petroselinum crispum*



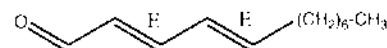
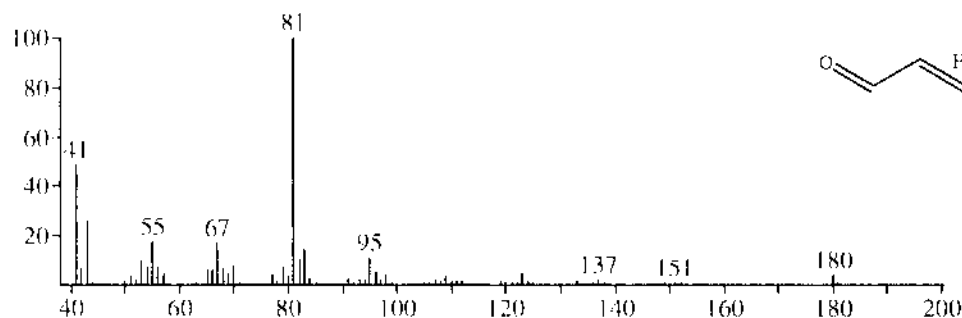
RT: 29.56 AI: 1518 KI: 1519 **Dodecadienal <(2E,4E)->**

CAS#: 21662-16-8 MF: C₁₂H₂₀O FW: 180 MSD LIB#: 2154

CN: 2,4-dodecadienal, (2E,4E)-

Synonyms: none

Source: Bedoukian Res.; 0.50% *Angelica archangelica*, J. Ag. Food Chem. 42:1979(1994)



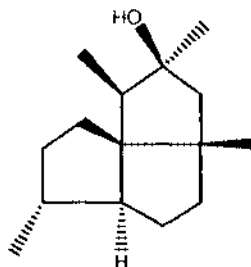
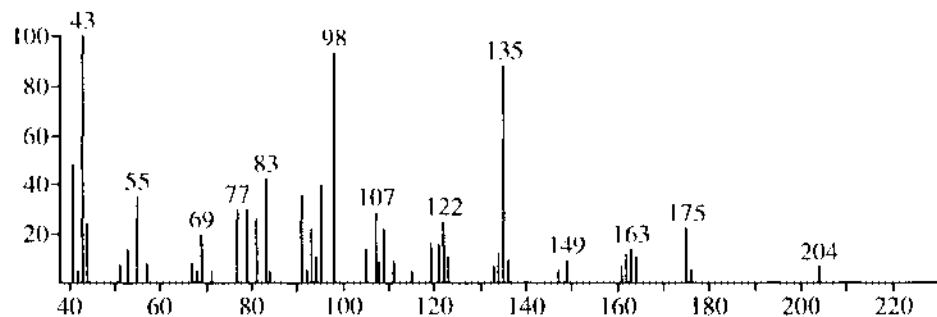
RT: 29.57 AI: 1518 KI: 1519 **Silphiperfolan-6- β -ol <7-epi->**

CAS#: 203714-23-2 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 645

CN: cyclopenta(c)pentalen-2-ol, decahydro-1,2,3a,6-tetramethyl-, (1R,2S,3aS,5aS,6R,8aR)-

Synonyms: none

Source: *Echinopos giganteus* oil ex P. Weyerstahl



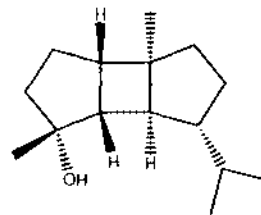
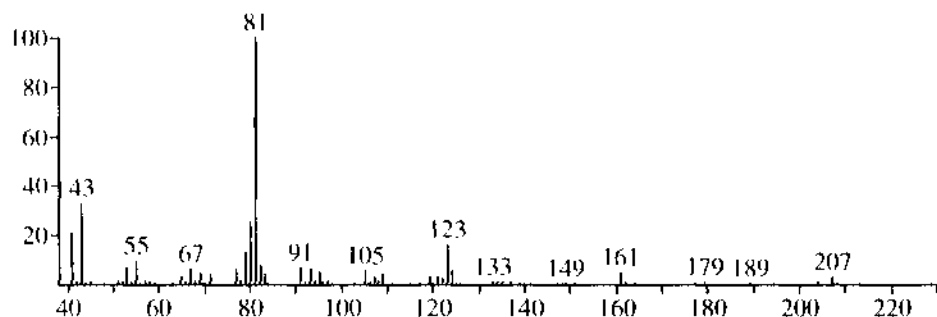
RT: 29.59 AI: 1518 KI: 1520 **Bourbonanol <endo-1->**

CAS#: 131435-09-1 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 318

CN: cyclobuta(1,2:3,4)dicyclopenten-1-ol, decahydro-1,3b-dimethyl-6-(1-methylethyl)- (1 α ,3 $\alpha\beta$,3 $\beta\alpha$,6 α ,6 $\alpha\alpha$,6 β)-

Synonyms: none

Source: Robertet ex D. Joulain



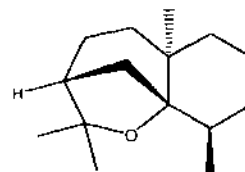
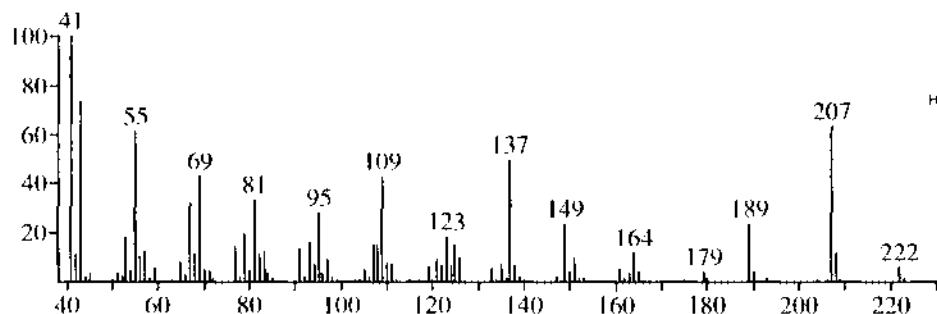
RT: 29.60 AI: 1519 KI: 1520 **Dihydroagarofuran <cis->**

CAS#: 150652-94-1 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 595

CN: 2H-2,9a-methano-1-benzoxepin, octahydro-2,2,5a,9-tetramethyl-, (3S-(3 α ,5 $\alpha\beta$,9 α ,9 $\alpha\alpha$))-

Synonyms: none

Source: ref. cpd. ex Ian Southwell



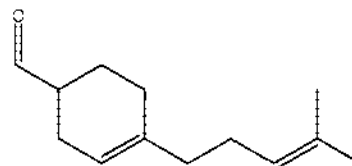
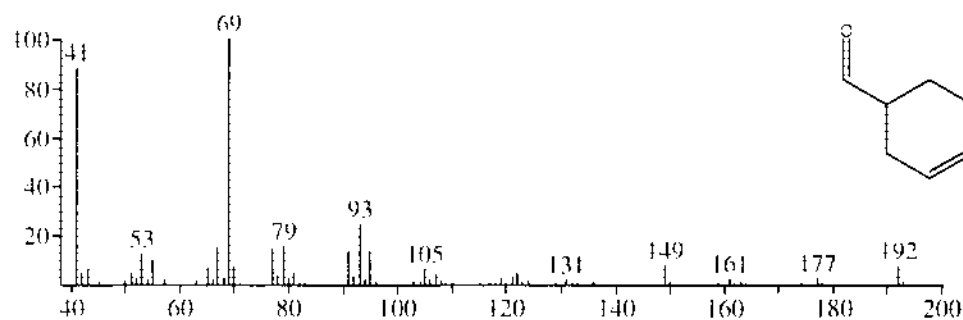
RT: 29.60 AI: 1519 KI: 1520 **Myrac aldehyde**

CAS#: 37677-14-8 MF: C₁₃H₂₀O FW: 192 MSD LIB#: 1117

CN: 3-cyclohexene-1-carboxaldehyde, 4-(4-methyl-3-pentenyl)-

Synonyms: none

Source: Givaudan ex Jian-Qin Cu, Kunming



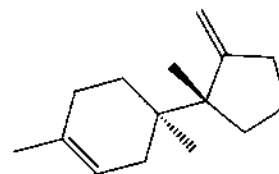
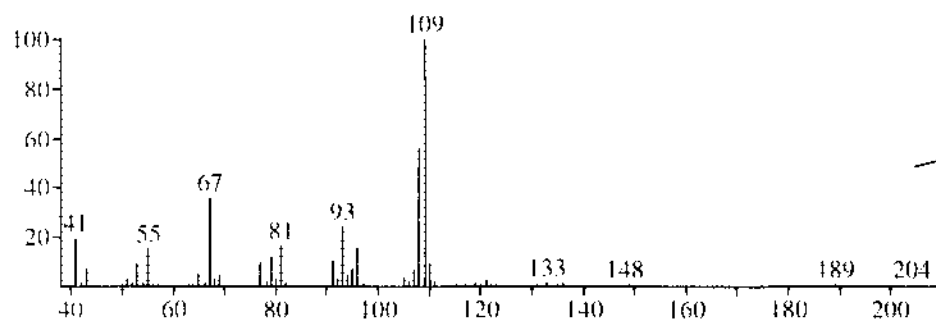
RT: 29.62 AI: 1519 KI: 1520 **Bazzanene <β>**

CAS#: 76231-80-6 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1872

CN: cyclohexene, 1,4-dimethyl-4-(1-methyl-2-methylenecyclopentyl)-, (R*,S*)-

Synonyms: none

Source: *Bazzania trilobata* ex. W. Koenig



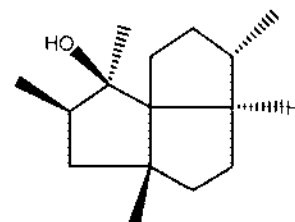
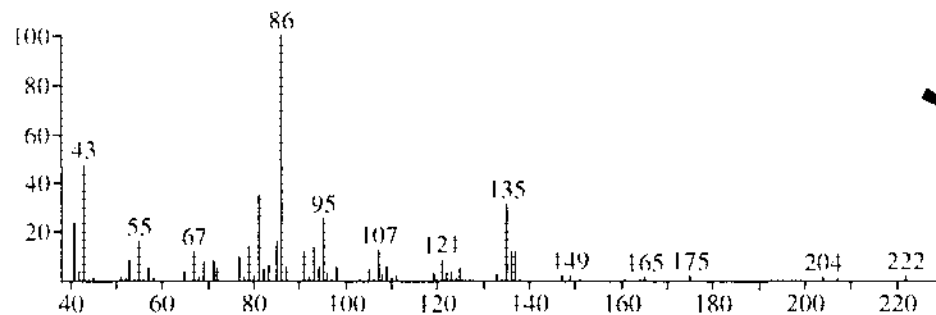
RT: 29.62 AI: 1519 KI: 1520 **Silphiperfolan-7-β-ol**

CAS#: 124596-90-3 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 642

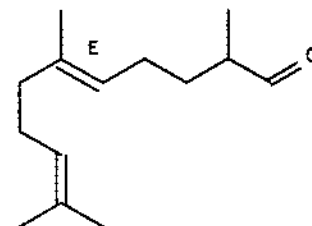
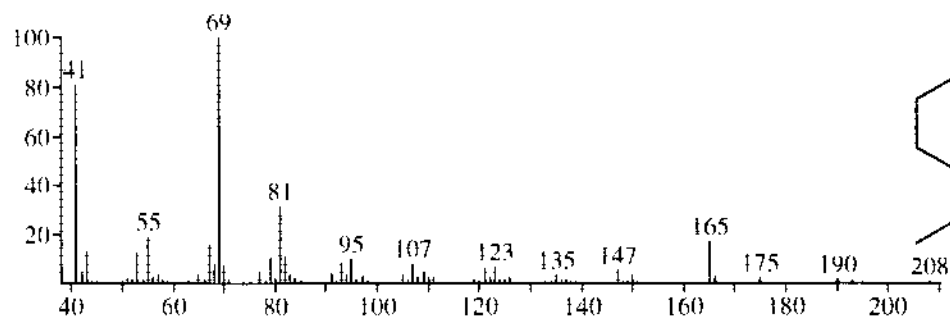
CN: cyclopenta(c)pentalen-1-ol, decahydro-1,2,3a,6-tetramethyl-, (1R,2R,3aR,5aR,6S,8aR)-

Synonyms: none

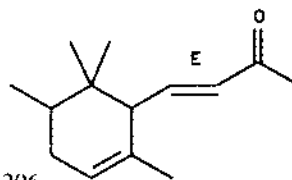
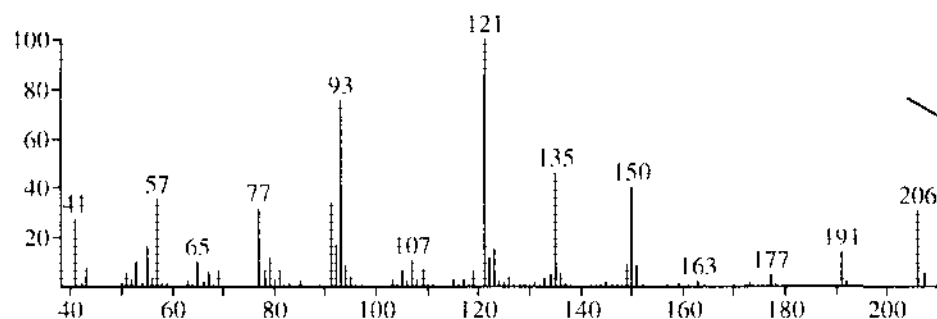
Source: *Echinopos giganteus* oil ex P. Weyerstahl



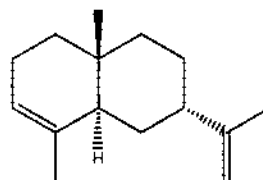
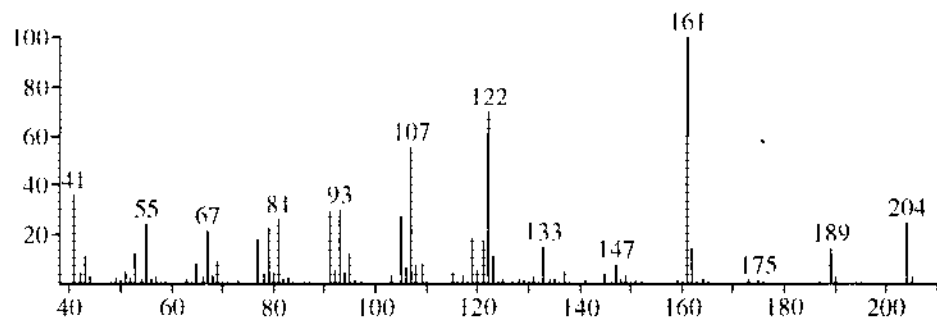
RT: 29.65 AI: 1520 KI: 1521 **Apofarnesal <(E)-dihydro->**
 CAS#: 55903-90-7 MF: C₁₄H₂₄O FW: 208 MSD LIB#: 180
 CN: 5,9-undecadienal, 2,6,10-trimethyl-, (E)-
 Synonyms: none
 Source: Dragoco ex Art Tucker



RT: 29.65 AI: 1520 KI: 1521 **Ionone <6-methyl-α->**
 CAS#: 79-69-6 MF: C₁₄H₂₂O FW: 206 MSD LIB#: 846
 CN: 3-buten-2-one, 4-(2,5,6,6-tetramethyl-2-cyclohexen-1-yl)-
 Synonyms: α-ionone
 Source: K & K Chem. ex H. Hills



RT: 29.67 AI: 1520 KI: 1522 **Selinene <7-epi-α->**
 CAS#: 123123-37-5 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 132
 CN: naphthalene, 1,2,3,4,4a,5,6,8a-octahydro-4a,8-dimethyl-2-(1-methylethenyl)-
 (2S-(2α,4αβ,8αα))-
 Synonyms: none
 Source: comm. Amyris oil, Port au Prince, Haiti



RT: 29.69 AI: 1521 KI: 1522 **Calamenene <trans->**

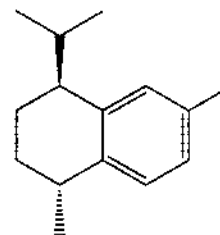
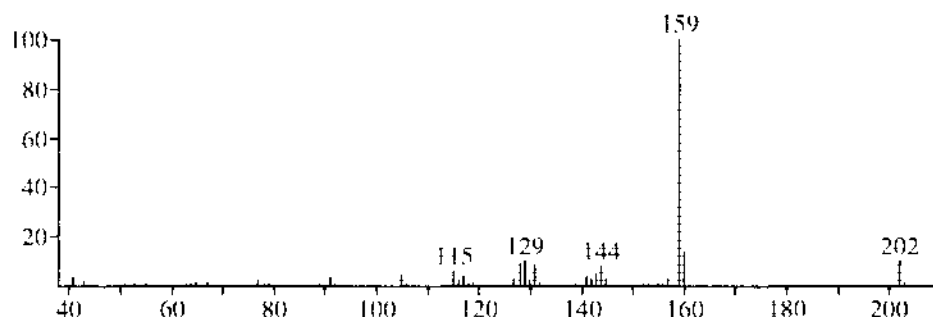
CAS#: 73209-42-4 MF: C₁₅H₂₂ FW: 202 MSD LIB#: 345

CN: naphthalene, 1,2,3,4-tetrahydro-1,6-dimethyl-4-(1-methylethyl)-,trans-

Synonyms: none

Source: Roure-Bertrand. Calamene; 1.30% *Phoebe porosa*, F13 9:179(1994);

1.05% *Ayendron barbeyana*; 0.60% *Cabralea cangerana*



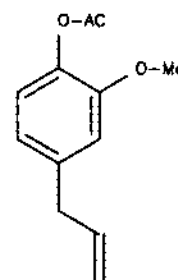
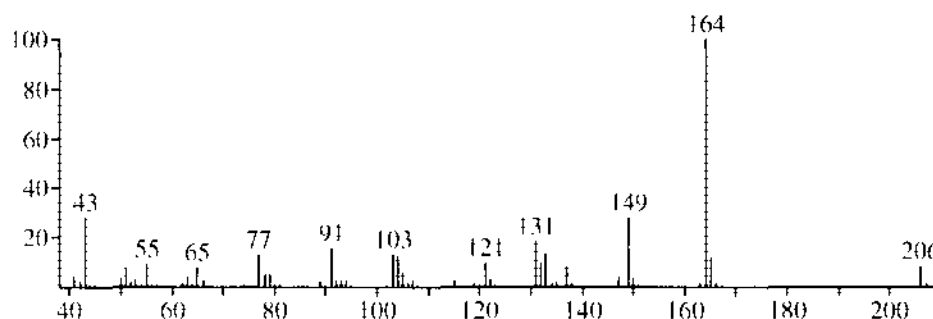
RT: 29.70 AI: 1521 KI: 1522 **Eugenol acetate**

CAS#: 93-28-7 MF: C₁₂H₁₄O₃ FW: 206 MSD LIB#: 821

CN: phenol, 2-methoxy-4-(2-propenyl)-, acetate

Synonyms: acetyleugenol

Source: ref. cpd. ex E. von Rudloff



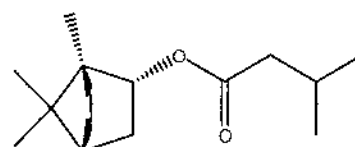
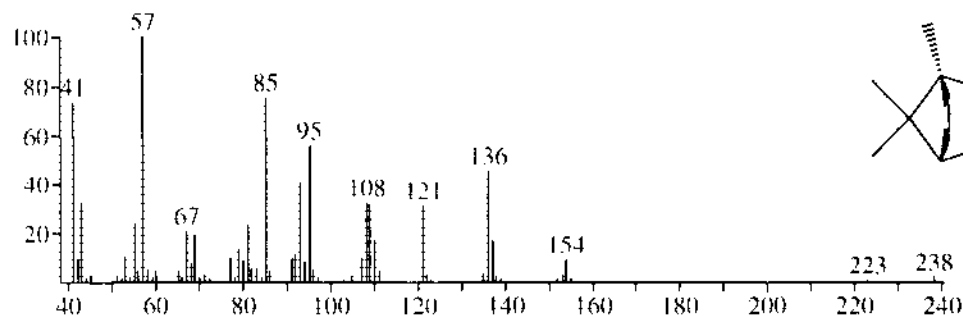
RT: 29.70 AI: 1521 KI: 1522 **Isobornyl isovalerate**

CAS#: 000-00-0 MF: C₁₅H₂₆O₂ FW: 238 MSD LIB#: 857

CN: not assigned

Synonyms: none

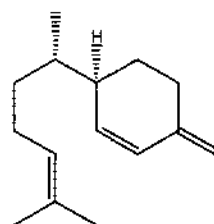
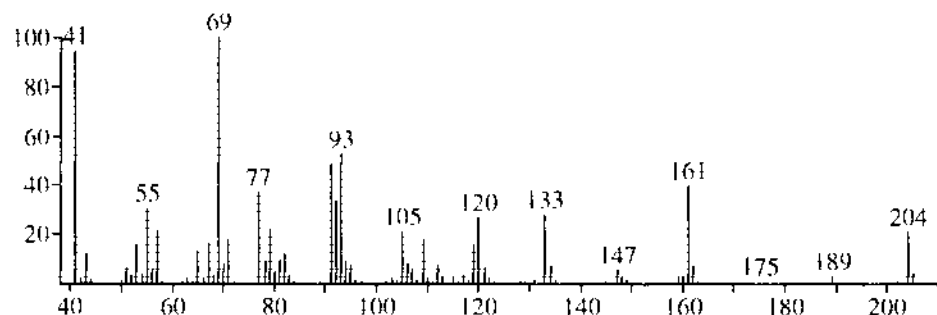
Source: ref. cpd. ex P. Weyerstahl



RT: 29.70 AI: 1521 K1: 1522 **Sesquiphellandrene <β>**CAS#: 20307-83-9 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 747

CN: cyclohexene, 3-(1,5-dimethyl-4-hexenyl)-6-methylene-, (S-*R*,S*)-

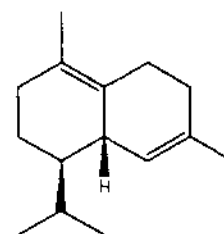
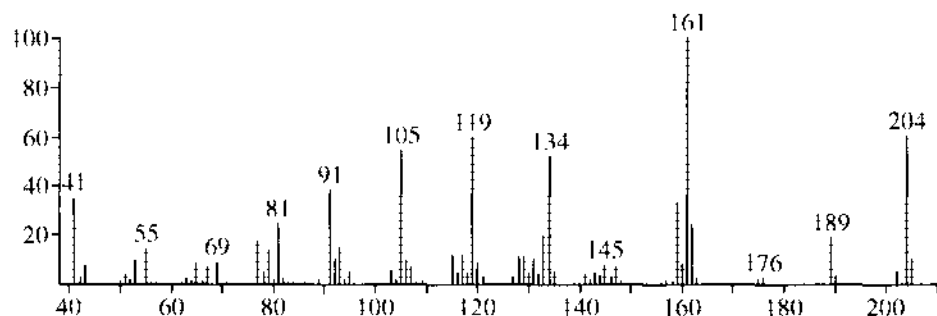
Synonyms: none

Source: distilled ginger roots (Schilling Co.), Adams #5436; 20.50% *Alpinia conchigera*.JEOR 7:195(1995); 19.83% *Pimpinella peregrina* (root); 14.75% *Psidium guajava*RT: 29.72 AI: 1522 K1: 1523 **Cadinene <δ>**CAS#: 483-76-1 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 833

CN: naphthalene, 1,2,3,5,6,8a-hexahydro-4,7-dimethyl-1-(1-methylethyl)-, (1S-cis)-

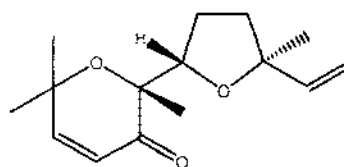
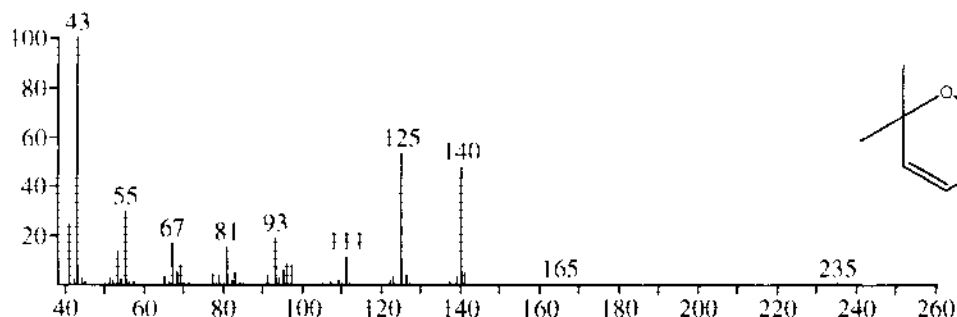
Synonyms: cadina-1(10),4-diene

Source: Hymenaea resin ex Jean Langenheim; common in conifers;

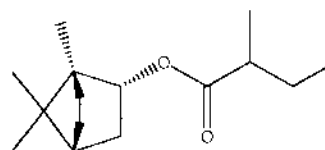
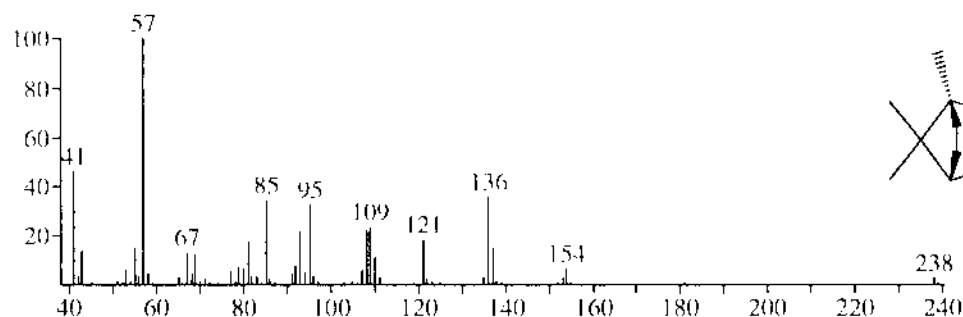
27.65% *Daniellia oliveri*, JEOR 6:647(1994); 27.00% *Scutellaria lateriflora*;20.40% *Dysoxylum richii*RT: 29.74 AI: 1522 K1: 1523 **Artedouglasia oxide C**CAS#: 115403-98-0 MF: C₁₅H₂₂O₃ FW: 250 MSD LIB#: 216

CN: 2H-pyran-3(6H)-one, 2-(5-ethenyltetrahydro-5-methyl-2-furanyl)-2,6,6-trimethyl-, (2S-(2α(S*),5β))-

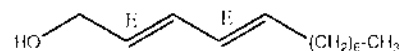
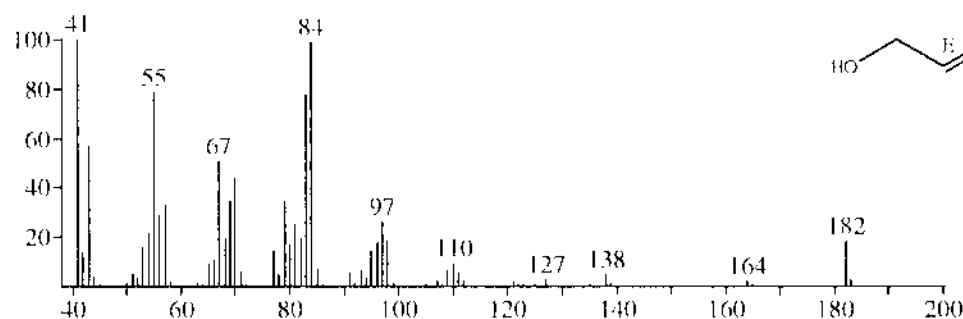
Synonyms: none

Source: *Artemisia persica* oil ex P. Weyerstahl; 0.90% *Artemisia persica*, JEOR 4:1(1992)

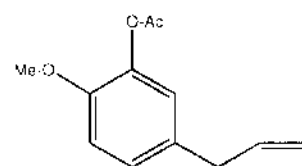
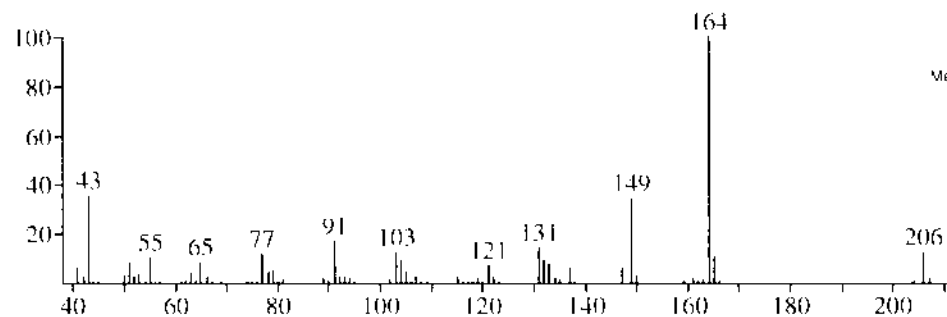
RT: 29.76 AI: 1523 KI: 1524 **Isobornyl 2-methyl butanoate**
 CAS#: 94200-10-9 MF: C₁₅H₂₆O₂ FW: 238 MSD LIB#: 1446
 CN: butanoic acid, 2-methyl-, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester
 Synonyms: isoborneol 2-methyl butyrate
 Source: *Stobilanthus auriculatus* oil ex P. Weyerstahl



RT: 29.77 AI: 1523 KI: 1524 **Dodecadienol <(2E,4E)->**
 CAS#: 18485-38-6 MF: C₁₂H₂₂O FW: 182 MSD LIB#: 2107
 CN: 2,4-dodecadien-1-ol, (2E,4E)-
 Synonyms: none
 Source: Bedoukian Res.



RT: 29.80 AI: 1524 KI: 1525 **Chavibetol acetate**
 CAS#: 1941-09-9 MF: C₁₂H₁₄O₃ FW: 206 MSD LIB#: 1825
 CN: phenol, 2-methoxy-5-(2-propenyl)-, acetate
 Synonyms: none
 Source: *Piper betel*, acetylated leaf oil ex K-H Kubeczka



RT: 29.82 AI: 1524 KI: 1525 **Methyl dodecanoate**

CAS#: 111-82-0 MF: C₁₃H₂₆O₂ FW: 214 MSD LIB#: 1094

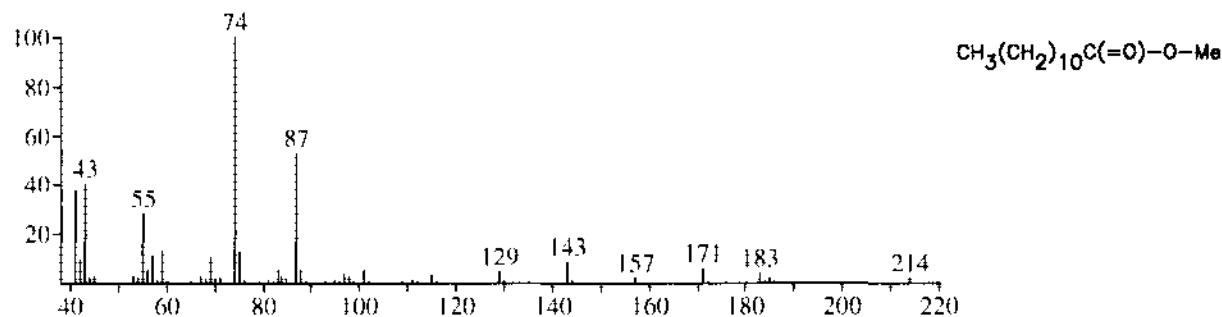
CN: dodecanoic acid, methyl ester

Synonyms: methyl laurate

Source: ref. cpd. ex E. von Rudloff; 6.83% *Magnolia grandiflora*,

p. 203, in: Aromatic Plants & Essentials Constituents, Peace Book Co.,

Hong Kong(1993); 0.10% *Narcissus poeticus* (absolute); 0.08% *Brassica juncea*



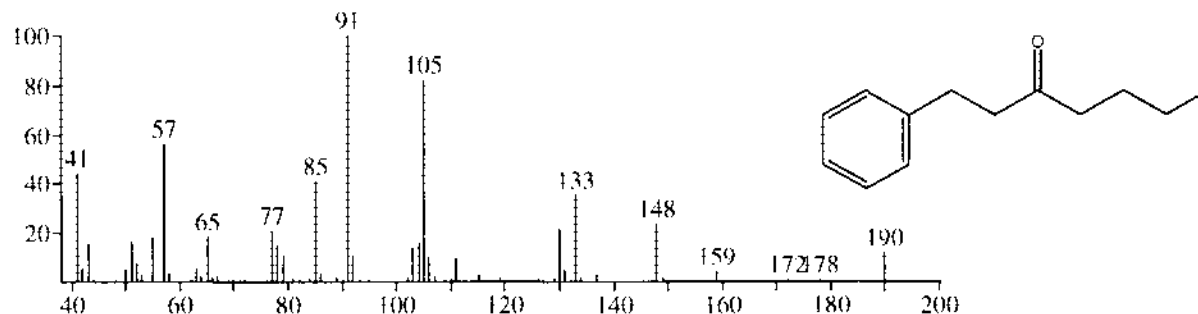
RT: 29.83 AI: 1524 KI: 1526 **Phenyl heptan-3-one <1>**

CAS#: 19969-04-1 MF: C₁₃H₁₈O FW: 190 MSD LIB#: 125

CN: 3-heptanone, 1-phenyl-

Synonyms: butyl phenethyl ketone

Source: *Anomyrtus meli* oil ex P. Weyerstahl



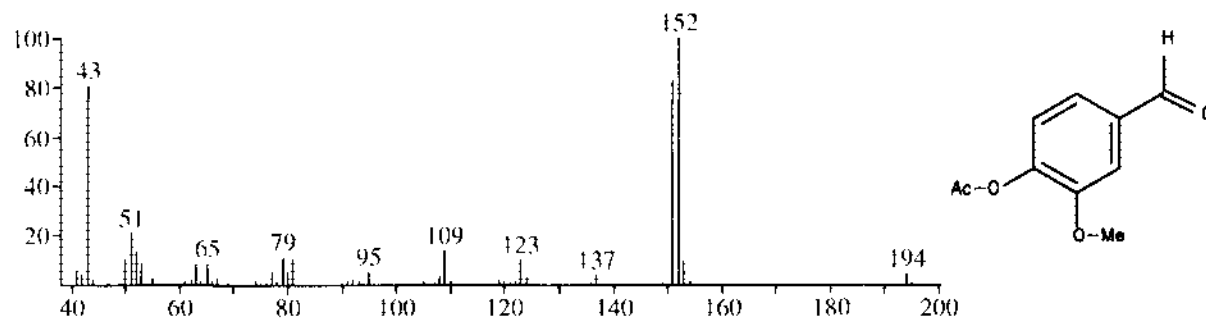
RT: 29.85 AI: 1525 KI: 1527 **Vanillin acetate**

CAS#: 881-68-5 MF: C₁₀H₁₀O₄ FW: 194 MSD LIB#: 1534

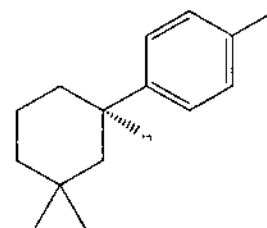
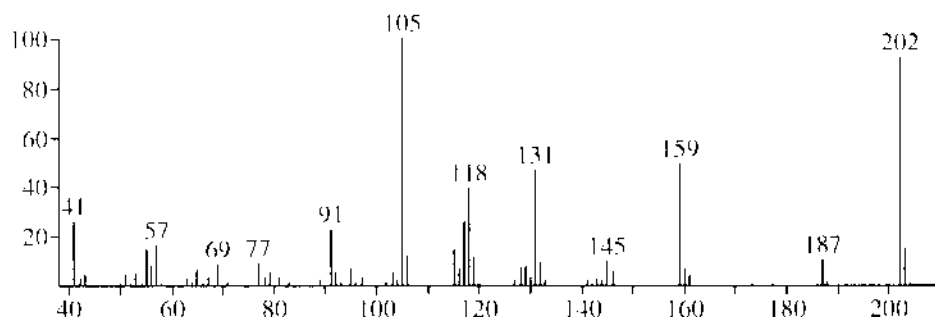
CN: benzaldehyde, 4-(acetyloxy)-3-methoxy-

Synonyms: acetovanillin; acetylvanillin

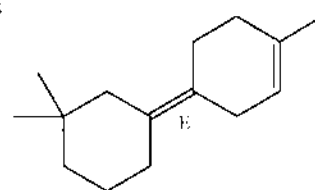
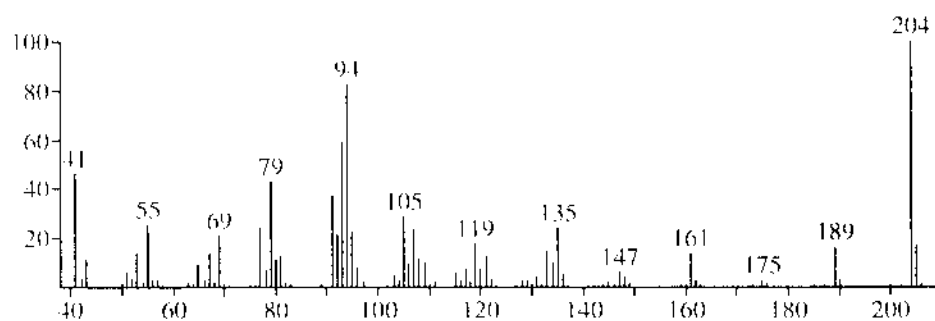
Source: Aldrich Chem.



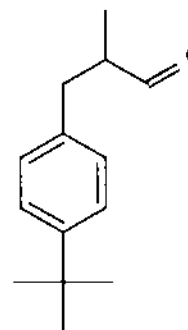
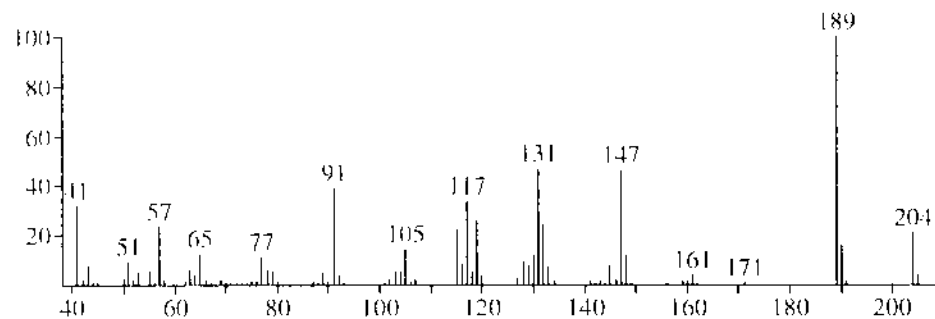
RT: 29.88 AI: 1526 KI: 1527 **Macrocarpene <ar->**
 CAS#: 847374-83-8 MF: C₁₅H₂₂ FW: 202 MSD LIB#: 1923
 CN: benzene, 1-[(1R)-3,3-dimethylcyclohexyl] 4-methyl
 Synonyms: none
 Source: *Cupressus macrocarpa* leaf oil ex Larry Cool



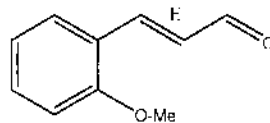
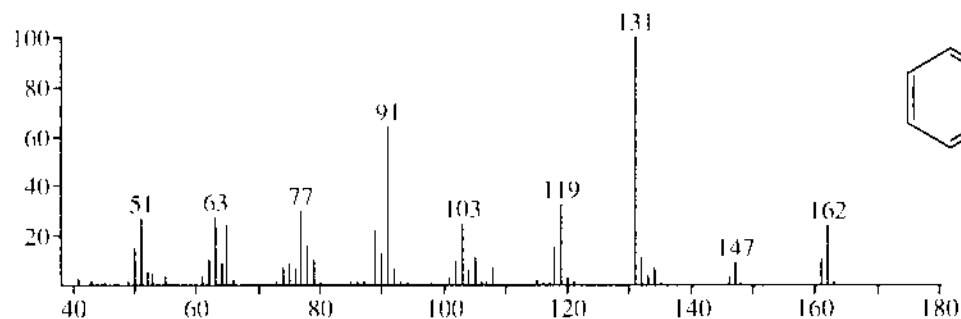
RT: 29.92 AI: 1527 KI: 1528 **Macrocarpene <(E)-γ->**
 CAS#: 847374-82-7 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1926
 CN: cyclohexene, 4-(3,3-dimethylcyclohexylidene)-1-methyl-, (4E)-
 Synonyms: none
 Source: *Cupressus macrocarpa* leaf oil ex Larry Cool



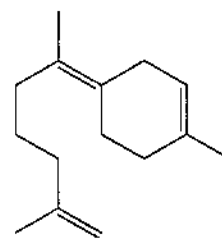
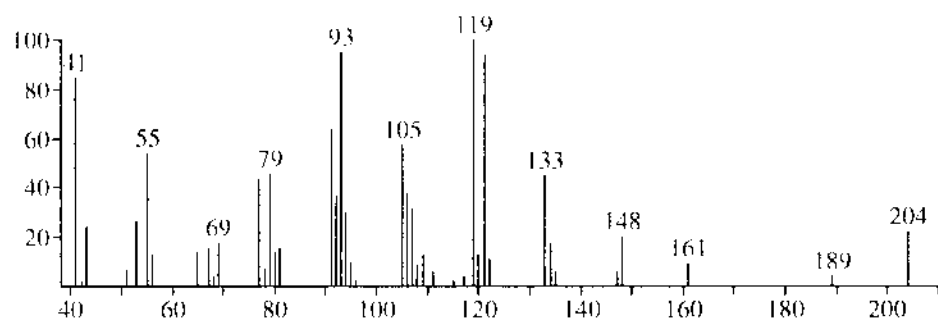
RT: 29.93 AI: 1527 KI: 1528 **Lilial**
 CAS#: 80-54-6 MF: C₁₄H₂₀O FW: 204 MSD LIB#: 1000
 CN: benzenepropanal, 4-(1,1-dimethylethyl)-α-methyl-
 Synonyms: lilyal
 Source: Givaudan ex Jian-Qin Cu, Kunming



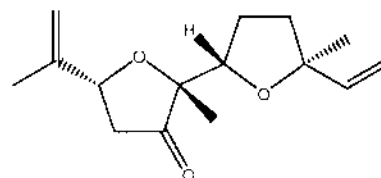
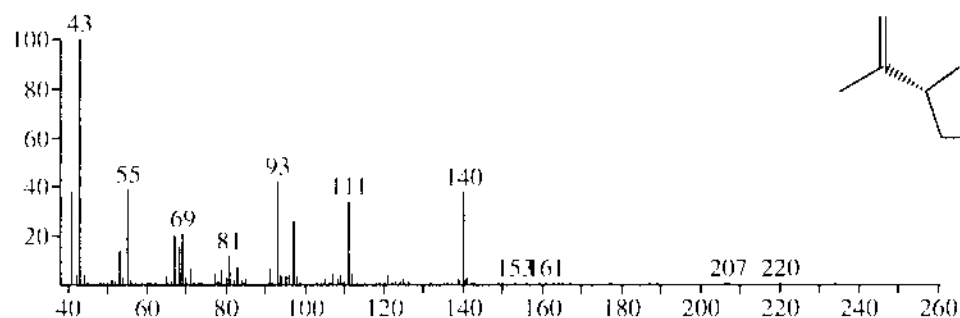
RT: 29.93 AI: 1527 KI: 1528 **Methoxy cinnamaldehyde <(E)-o->**
 CAS#: 60125-24-8 MF: C₁₀H₁₀O₂ FW: 162 MSD LIB#: 1086
 CN: 2-propenal, 3-(2-methoxyphenyl)-, (E)-
 Synonyms: none
 Source: Firmenich ex Jian-Qin Cu, Kunming



RT: 29.96 AI: 1528 KI: 1529 **Bisabolene <(E)-iso-γ->**
 CAS#: 622792-97-6 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1920
 CN: cyclohexene, 4-(1,5-dimethyl-5-hexenyldiene)-1-methyl-, (4E)-
 Synonyms: none
 Source: *Cupressus macrocarpa* oil ex Larry Cool



RT: 29.96 AI: 1528 KI: 1529 **Laciniata furanone G**
 CAS#: 199115-09-8 MF: C₁₅H₂₂O₃ FW: 250 MSD LIB#: 204
 CN: (2,2'-bifuran)-3(2H)-one, 5'-ethenylhexahydro-2,5'-dimethyl-5-(1-methylethenyl)-, (2R)-(2α(2'S*,5'S*),5α)-
 Synonyms: none
 Source: *Artemisia lactinata* oil ex P. Weyerstahl



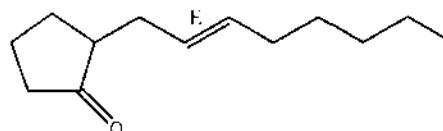
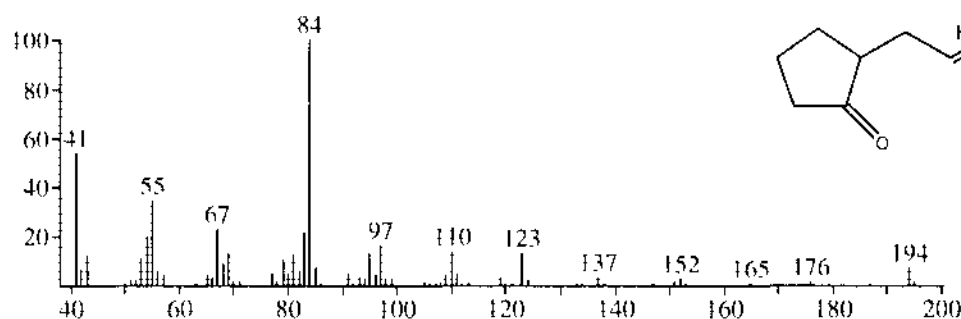
RT: 29.97 AI: 1528 KI: 1529 **Octenyl cyclopentanone <(E)->**

CAS#: 98314-98-8 MF: C₁₃H₂₂O FW: 194 MSD LIB#: 2159

CN: cyclopentanone, 2-(2-octenyl)-, (E)-

Synonyms: none

Source: Bedoukian Res.



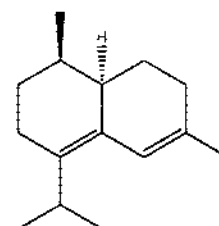
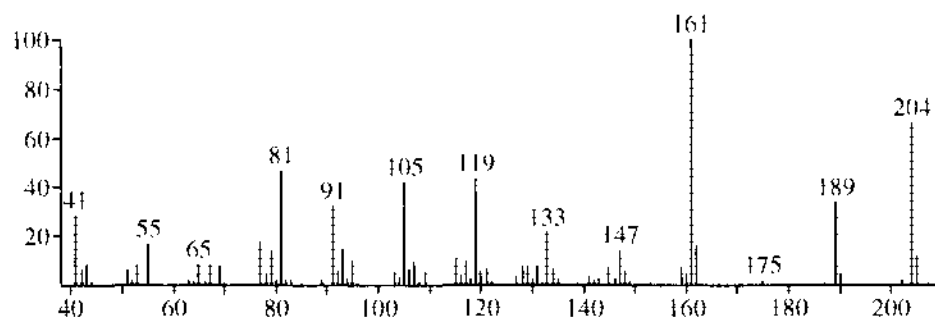
RT: 29.97 AI: 1528 KI: 1529 **Zonarene**

CAS#: 41929-05-9 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1051

CN: naphthalene, 1,2,3,7,8,8a-hexahydro-1,6-dimethyl-4-(1-methylethyl)-, (1R,8aR)-

Synonyms: none

Source: Manuka oil ex W. A. Koenig; 0.01% *Eugenia caryophyllus*, p.108, in: Essential Oils(1976), B.M. Lawrence Pub.



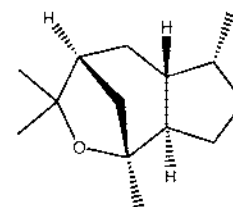
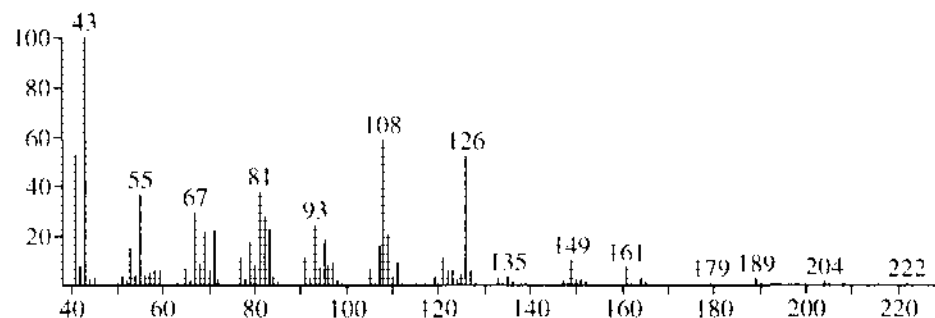
RT: 30.02 AI: 1529 KI: 1530 **Kessane**

CAS#: 3321-66-2 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1212

CN: 1,4-ethano-1H-cyclopent(c)oxepin, octahydro-1,3,3,6-tetramethyl-, (1S-(1 α ,4 α ,5 α ,6 α ,8 α))-

Synonyms: none

Source: *Olearia phylogopappa* oil ex V. Dragar; 6.80% *Valeriana javanica*, FIJ 11:321(1996)



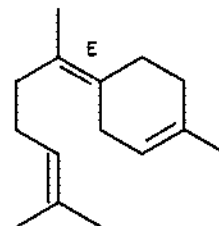
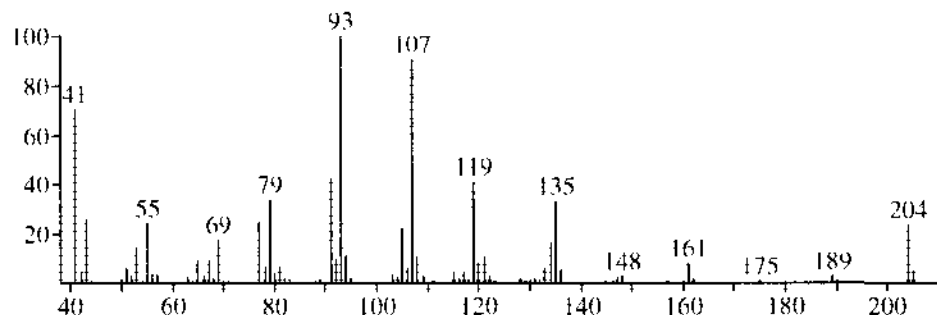
RT: 30.03 AE: 1529 KI: 1531 **Bisabolene <(E)-γ->**

CAS#: 53585-13-0 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 357

CN: cyclohexene, 4-(1,5-dimethyl-4-hexenylidene)-1-methyl-, (E)-

Synonyms: trans-γ-bisabolene

Source: carrot root oil ex D. Senalik



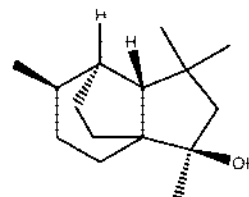
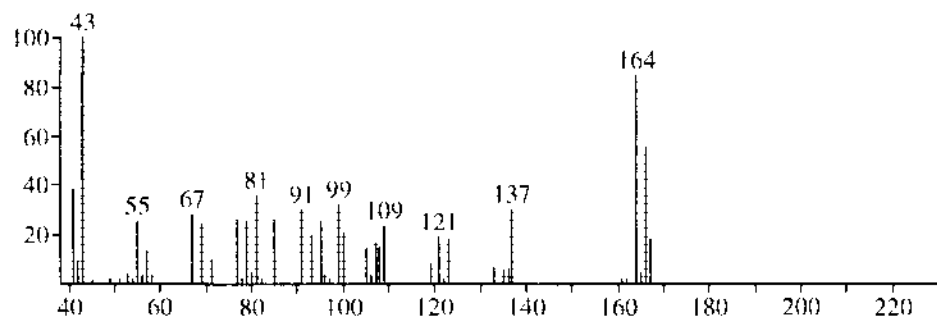
RT: 30.03 AE: 1529 KI: 1531 **Nopsan-4-ol**

CAS#: 210482-76-1 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 643

CN: 3a,7-ethano-3aH-inden-3-ol, octahydro-1,1,3,6-tetramethyl-, (3R,3aR,6R,7S,7aR)-

Synonyms: none

Source: *Echinopos giganteus* oil ex P. Weyerstahl



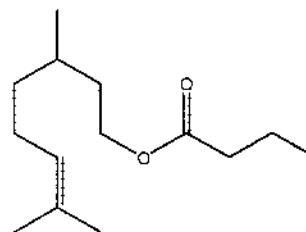
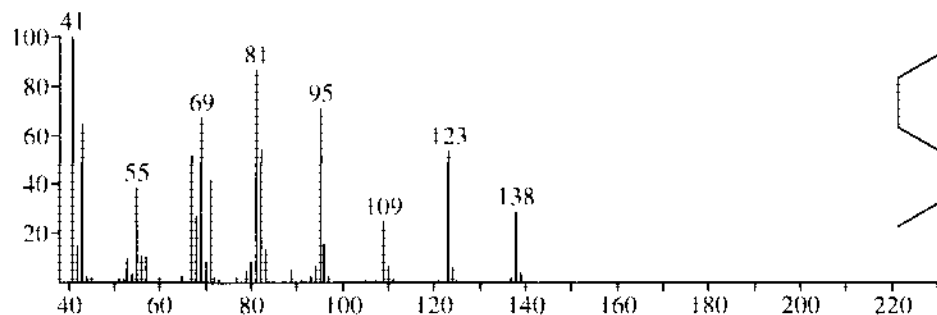
RT: 30.05 AE: 1530 KI: 1531 **Citronellyl butanoate**

CAS#: 141-16-2 MF: C₁₄H₂₆O₂ FW: 226 MSD LIB#: 735

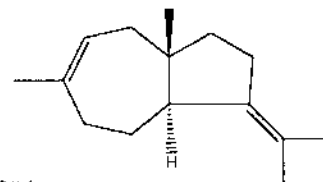
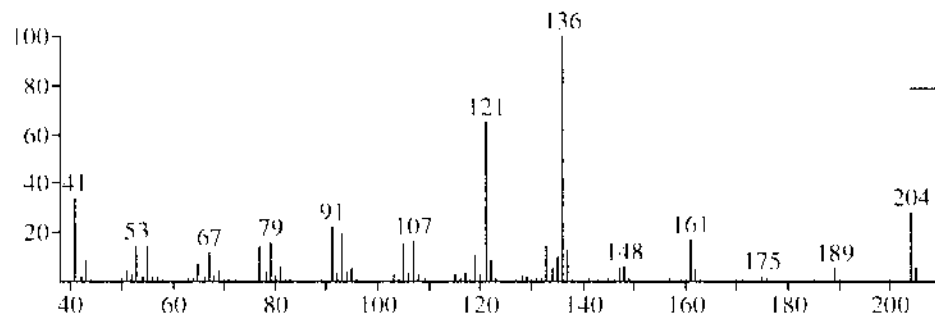
CN: butanoic acid, 3,7-dimethyl-6-octenyl ester

Synonyms: citronellyl butyrate; citronellol butanoate

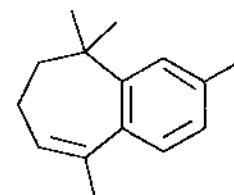
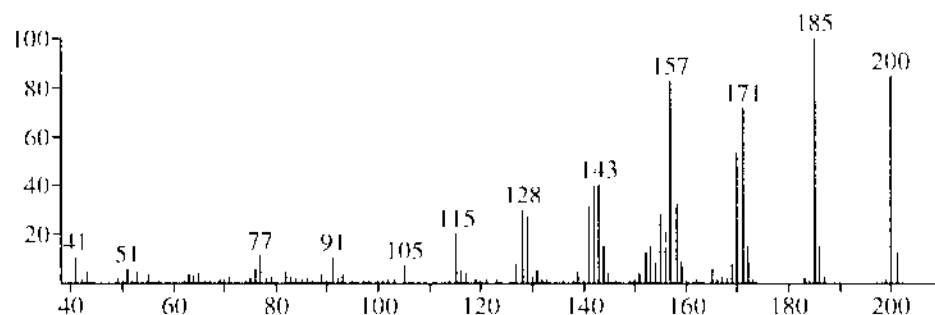
Source: Fluka Chem.



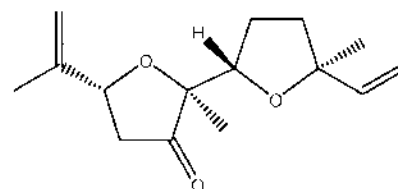
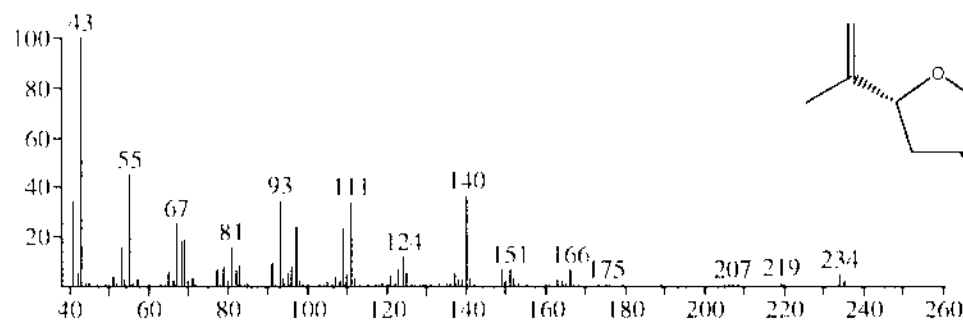
RT: 30.05 AI: 1530 KI: 1531 **Dauca-4(11),8-diene**
 CAS#: 395070-76-5 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1575
 CN: azulene, 1,2,3,3a,4,7,8,8a-octahydro-3a,6-dimethyl-1-(1-methylethylidene)-
 (3a*S*,8a*S*)-
 Synonyms: none
 Source: *Rosa rugosa* oil ex Art Tucker



RT: 30.08 AI: 1530 KI: 1532 **Himachalene <γ-dehydro-ar>**
 CAS#: 51766-65-5 MF: C₁₅H₂₂O FW: 200 MSD LIB#: 242
 CN: 5H-benzocycloheptene, 6,7-dihydro-3,5,5,9-tetramethyl-
 Synonyms: none
 Source: *Artemisia vestita* oil ex P. Weyerstahl



RT: 30.09 AI: 1531 KI: 1532 **Laciniata furanone F**
 CAS#: 148709-42-6 MF: C₁₅H₂₂O₃ FW: 250 MSD LIB#: 205
 CN: (2,2'-bifuran)-3(2H)-one, 5'-ethenylhexahydro-2,5'-dimethyl-5-(1-methylethenyl)-,
 (2*S*-(2*a*(2'*R**,5'*R**),5*β*))-
 Synonyms: none
 Source: *Artemisia lactinata* oil ex P. Weyerstahl



RT: 30.09 AE: 1531 KI: 1532 **Nerolidol <(Z)->**

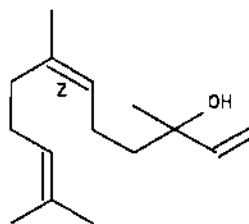
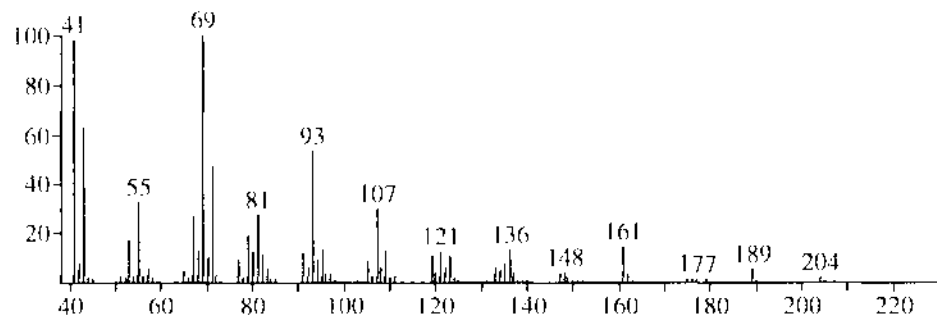
CAS#: 142-50-7 ME: C₁₅ H₂₆ O FW: 222 MSD LIB#: 1140

CN: 1,6,10-dodecatrien-3-ol, 3,7,11-trimethyl-, (Z)-

Synonyms: peruvial

Source: Sigma Chem. ex Robert Doss, USDA: 36.30% *Zingiber zerumbet*,

FEJ 3:37(1988); 5.70 *Achillea millefolium*; 5.50% *Psidium guineense* (leaf)



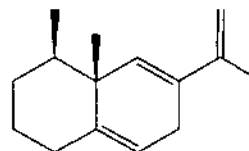
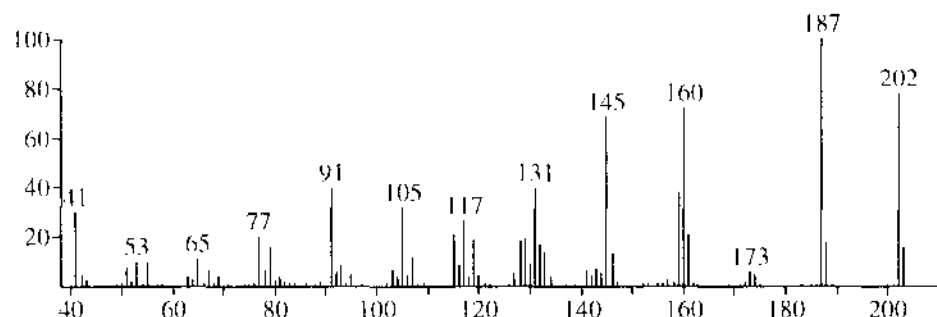
RT: 30.09 AE: 1531 KI: 1533 **Vetivenene <γ>**

CAS#: 28908-26-1 ME: C₁₅ H₂₂ FW: 202 MSD LIB#: 1555

CN: naphthalene, 1,2,3,4,6,8a-hexahydro-1,8a-dimethyl-7-(1-methylethenylidene)-, (1R,8aR)-

Synonyms: eremophila-1,7(11),9-triene, 4-β 5-α-

Source: alc. fraction of Vetiver oil ex N Sellier



RT: 30.11 AE: 1528 KI: 1529 **Calamenene <cis>**

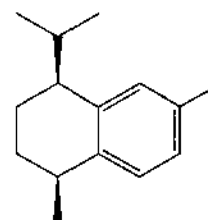
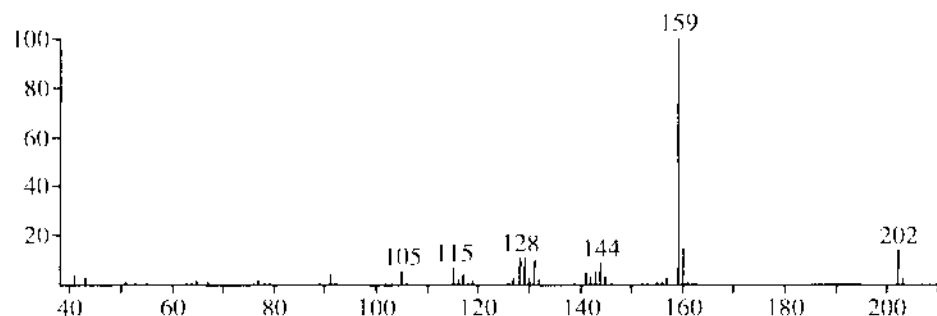
CAS#: 72937-55-4 ME: C₁₅ H₂₂ FW: 202 MSD LIB#: 346

CN: naphthalene, 1,2,3,4-tetrahydro-1,6-dimethyl-4-(1-methylethyl)-, cis-

Synonyms: none

Source: Route-Bertrand ex H. Hills; 1.00% *Baccharis dracunculifolia*, FEJ 11:15(1996);

0.77% *Salvia sclarea*; 0.13% *Rosmarinus officinalis*



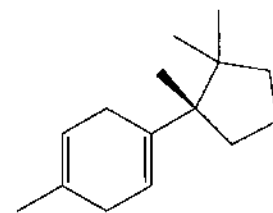
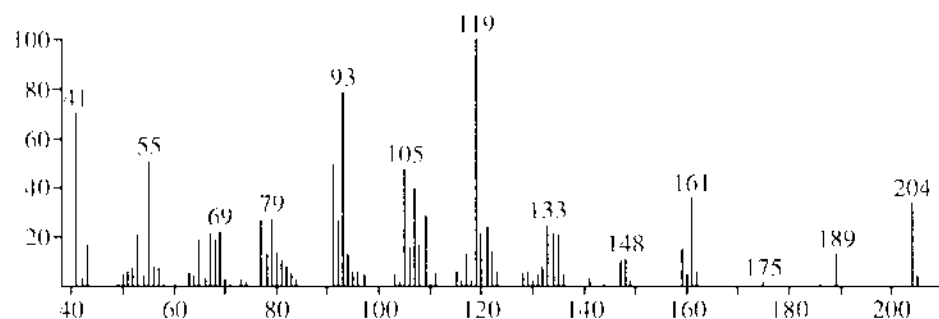
RT: 30.14 AI: 1532 KI: 1533 **Cuprenene < γ ->**

CAS#: 4895-23-2 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1873

CN: 1,4-cyclohexadiene, 1-methyl-4-[(1S)-1,2,2-trimethylcyclopentyl]-

Synonyms: buprenene IV; cuprenene 4; 4-cuprenene

Source: *Bazzania trilobata* ex. W. Koenig



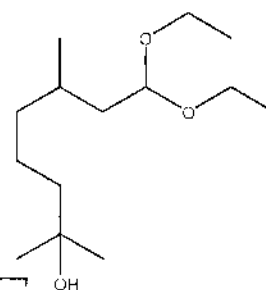
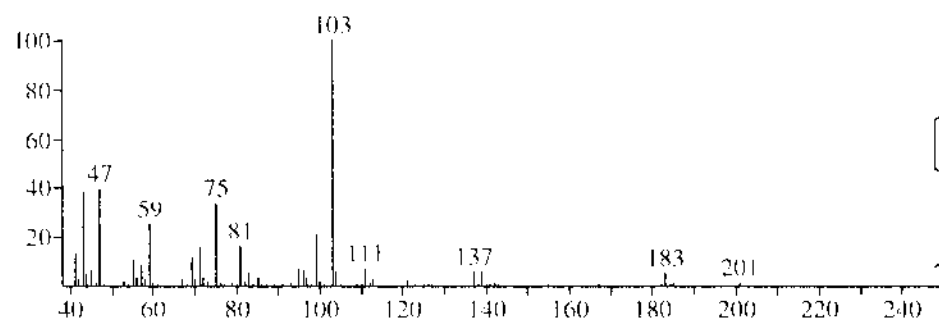
RT: 30.14 AI: 1532 KI: 1533 **Hydroxy citronellal <diethyl acetal->**

CAS#: 7779-94-4 MF: C₁₄H₃₀O₃ FW: 246 MSD LIB#: 2120

CN: 2-octanol, 8,8-diethoxy-2,6-dimethyl-

Synonyms: none

Source: Bedoukian Res.



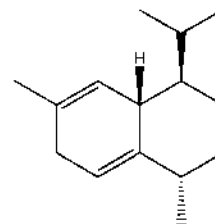
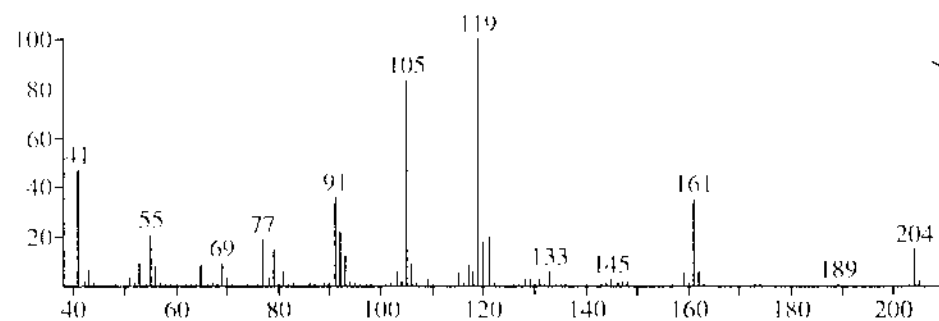
RT: 30.18 AI: 1533 KI: 1534 **Cadina-1,4-diene <trans->**

CAS#: 38758-02-0 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1315

CN: naphthalene, 1,2,3,4,4a,7-hexahydro-1,6-dimethyl-4-(1-methylethyl)-, (1 α ,4 β ,4a β)-

Synonyms: none

Source: *Pinus edulis* resin ex Larry Cool



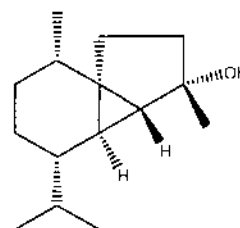
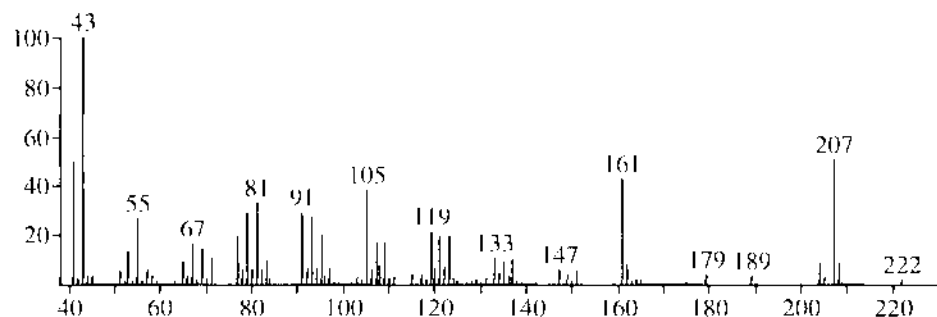
RT: 30.19 AI: 1533 KI: 1535 **Cubebol <10-epi>**

CAS#: 176589-53-0 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 428

CN: 1H-cyclopenta(1,3)cyclopropa(1,2)benzen-3-ol, octahydro-3,7-dimethyl-4-(1-methylethyl)-, (3S-(3 α ,3 β ,3 β α ,4 α ,7 α ,7 α S*))-

Synonyms: none

Source: *Chamaecyparis obtusa* var. *Nangoa* oil ex S. Nagahama



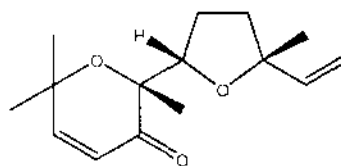
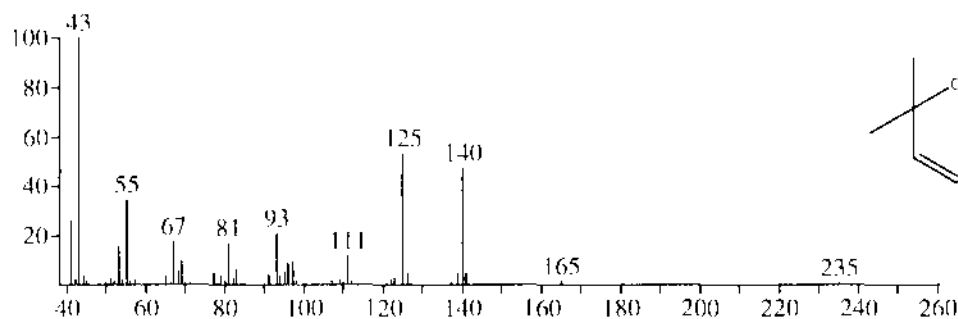
RT: 30.22 AI: 1534 KI: 1535 **Artedouglasia oxide A**

CAS#: 115403-96-8 MF: C₁₅H₂₂O₃ FW: 250 MSD LIB#: 217

CN: 2H-pyran-3(6H)-one, 2-(5-ethenyltetrahydro-5-methyl-2-furanyl)-2,6,6-trimethyl-, (2S-(2 α (S*),5 α))-

Synonyms: none

Source: *Artemisia persica* oil ex P. Weyerstahl; 1.10% *Artemisia persica*, JFOR 4:1(1992)



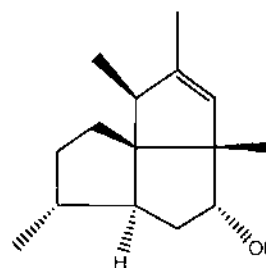
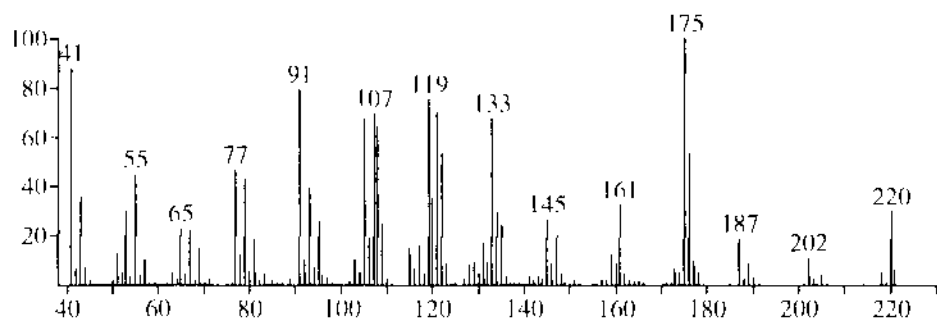
RT: 30.23 AI: 1534 KI: 1535 **Silphiperfol-5-en-3-ol B**

CAS#: 138752-20-2 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1414

CN: cyclopenta(c)pentalen-4-ol, 1,3a,4,5,5a,6,7,8-octahydro-1,2,3a,6 tetramethyl-, (1S-(1 α ,3 α ,4 β ,5 α ,6 β ,8 α S*))-

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl



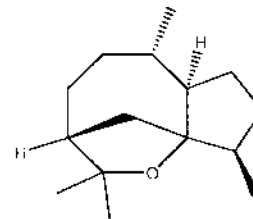
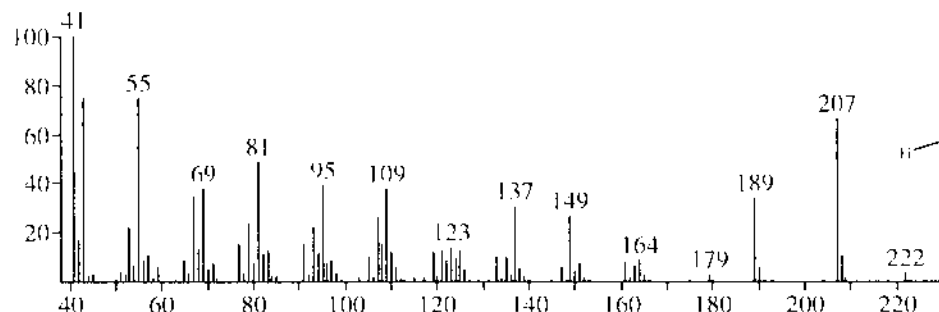
RT: 30.24 AI: 1534 KI: 1536 **Liguloxide**

CAS#: 21764-22-7 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1211

CN: 21H-3,9a-methanocyclopent(b)oxocin, octahydro-2,2,6,9-tetramethyl-,
(3R-(3 α ,6 β ,6 α ,9 α ,9 α))-

Synonyms: none

Source: *Olearia phylogopappa* oil ex V. Dragar



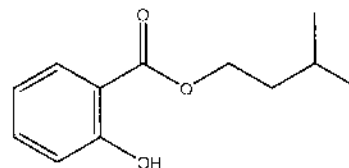
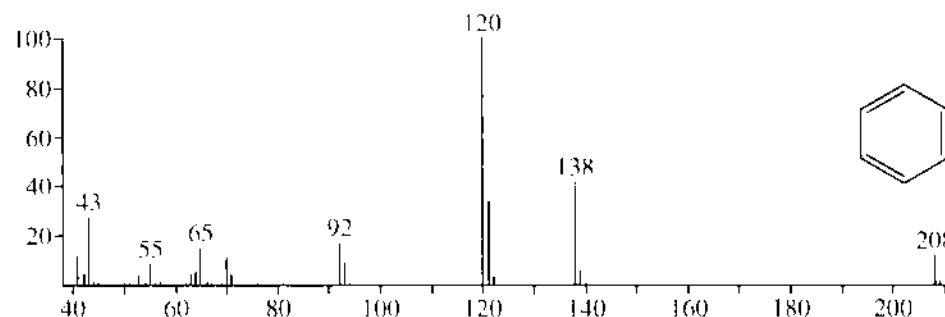
RT: 30.25 AI: 1535 KI: 1536 **Isopentyl salicylate**

CAS#: 87-20-7 MF: C₁₂H₁₆O₃ FW: 208 MSD LIB#: 1252

CN: benzoic acid, 2-hydroxy-, 3-methylbutyl ester

Synonyms: isamyl salicylate; salicylic acid, isopentyl ester

Source: Givaudan ex Ari Tucker



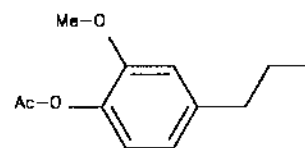
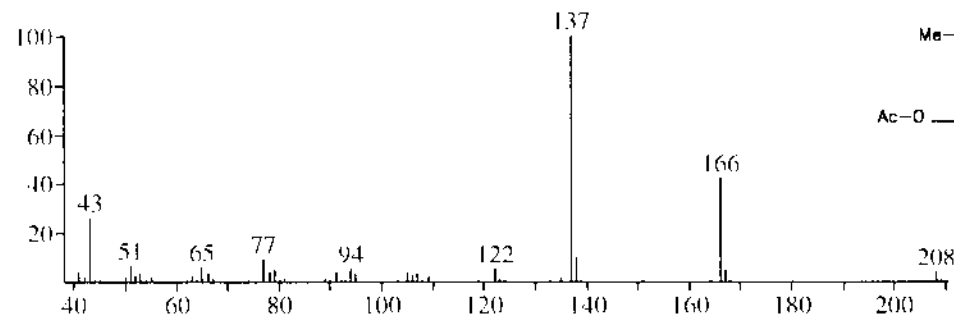
RT: 30.30 AI: 1536 KI: 1537 **Eugenol acetate <dihydro->**

CAS#: 33943-26-9 MF: C₁₂H₁₆O₃ FW: 208 MSD LIB#: 698

CN: phenol, 2-methoxy-4-propyl-, acetate

Synonyms: dihydroeugenol acetate

Source: acetylation of dihydro eugenol (6313)



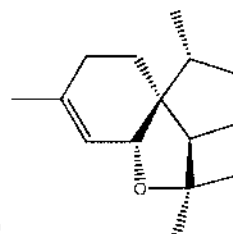
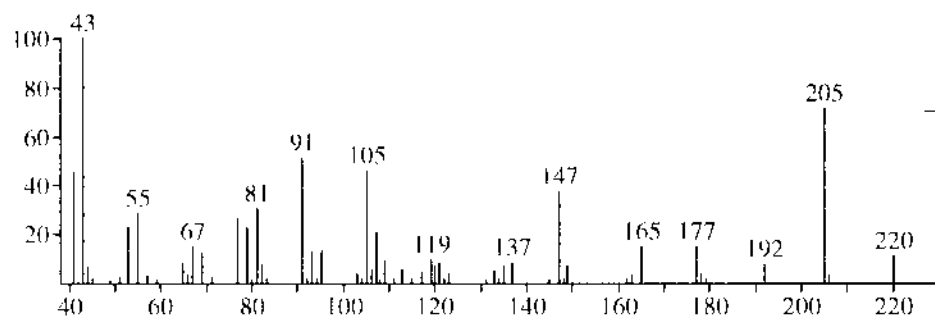
RT: 30.30 AI: 1536 KI: 1537 **Italicene ether**

CAS#: 104188-25-2 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 507

CN: 1H,9H-cyclopenta(c)benzofuran, 2,3,3a,4,5a,8-hexahydro-1,4,4,7-tetramethyl-, (1R,3aR,5aR,9aS)-

Synonyms: acor-4-ene(6,11-oxido-)

Source: *Cupressus bakeri* oil fraction ex Larry Cool; 0.10% *Helichrysum italicum*, p. 177, in: Prog. in Ess. Oil Res., E.-J. Brunke Ed., Gruyter Publ., Berlin (1986); 0.02% *Boronia megastigma*



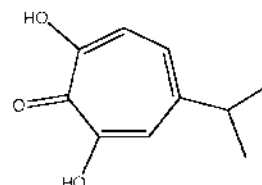
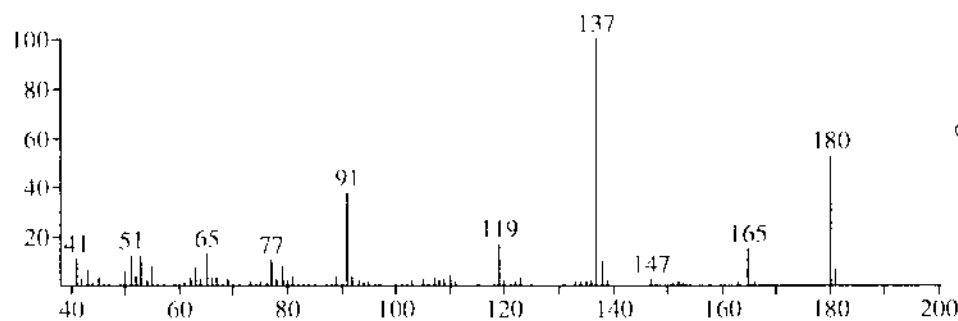
RT: 30.32 AI: 1536 KI: 1538 **Thujaplicinol <β>**

CAS#: 4356-35-8 MF: C₁₀H₁₂O₃ FW: 180 MSD LIB#: 1495

CN: 2,4,6-cycloheptatrien-1-one, 2,7-dihydroxy-4-(1-methylethyl)-

Synonyms: none

Source: ref. cpd. ex E. von Rudloff



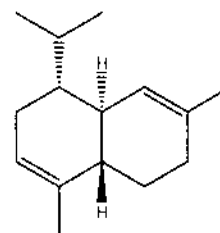
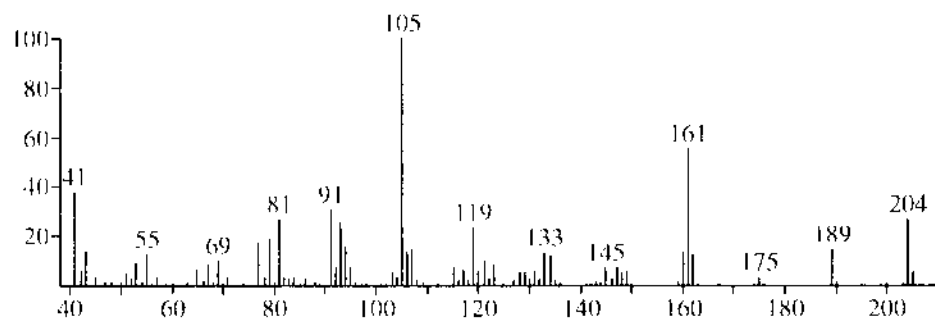
RT: 30.33 AI: 1537 KI: 1538 **Cadinene <α>**

CAS#: 82468-90-4 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 947

CN: naphthalene, 1,2,4a,5,6,8a-hexahydro-4,7-dimethyl-1-(1-methylethyl)-, (1α,4α,8α)-

Synonyms: none

Source: *Juniperus squamata* leaf oil ex P. Weyerstahl



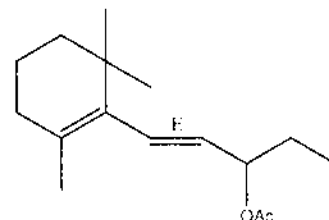
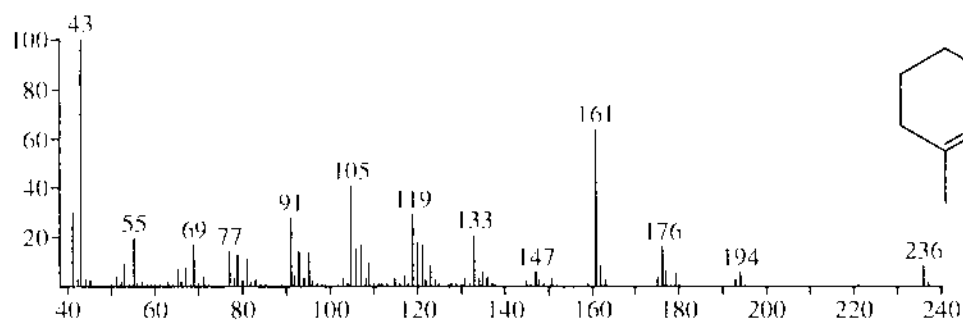
RT: 30.34 AI: 1537 KI: 1538 **Ionol acetate <β-(E)->**

CAS#: 000-00-0 MF: C₁₅H₂₄O₂ FW: 236 MSD LIB#: 2108

CN: 3-buten-2-ol, 4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-, acetate, (E)-

Synonyms: none

Source: Bedoukian Res.



RT: 30.39 AI: 1538 KI: 1540 **Europelargone A**

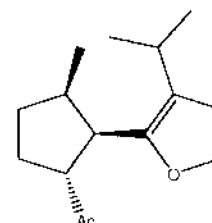
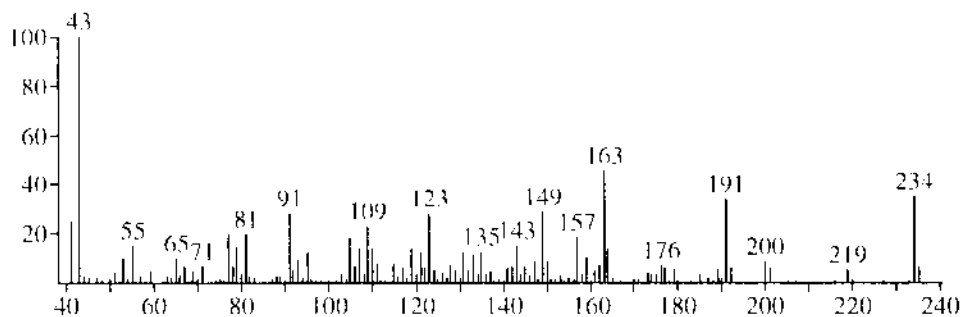
CAS#: 1143-45-9 MF: C₁₅H₂₂O₂ FW: 234 MSD LIB#: 256

CN: ethanone, 1-(3-methyl-2-(3-(1-methylethyl)-2-furanyl)cyclopentyl)-, (1R-(1α,2β,3β))-

Synonyms: none

Source: Ayon oil ex P. Weyerstahl; 2.80% *Ayendron barbeyana*, FIJ 4:93(1989);

0.59% *Pelargonium graveolens*; 0.24% *Phoebe porosa*



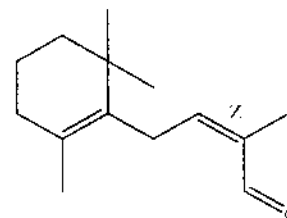
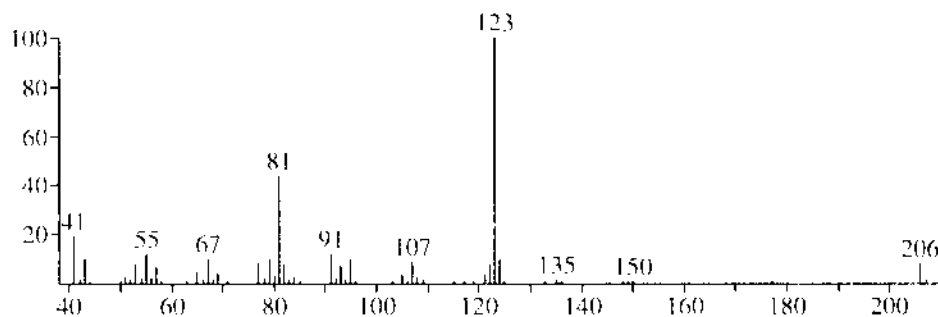
RT: 30.40 AI: 1538 KI: 1540 **Veltonal <(Z)->**

CAS#: 000-00-0 MF: C₁₄H₂₂O FW: 206 MSD LIB#: 2029

CN: 2-butenal, 2-methyl-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-, (2Z)-

Synonyms: none

Source: Bedoukian Res. ex JJ Brophy



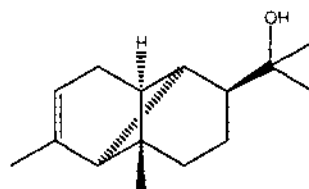
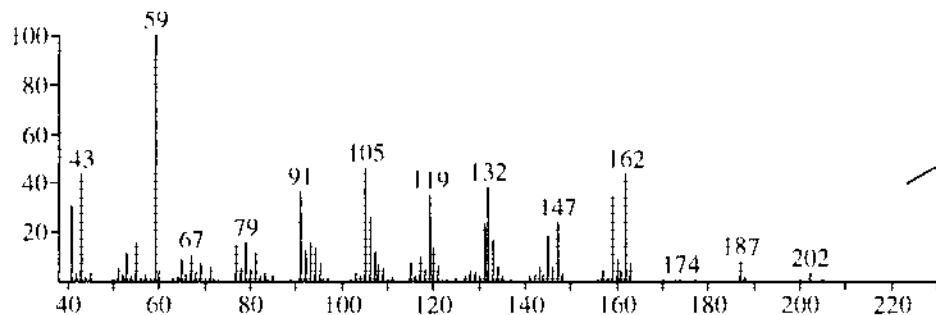
RT: 30.43 AI: 1539 KI: 1541 **Copaen-11-ol < α >**

CAS#: 41370-56-3 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1759

CN: tricyclo(4.4.0.0^{2,7})dec-8-ene-3-methanol, $\alpha,\alpha,6,8$ -tetramethyl-, (1S,2S,3R,6R,7S)-

Synonyms: copaen-11-ol, 2-

Source: *Juniperus deltoides* leaf oil, RP Adams# 9759, Archova, Greece



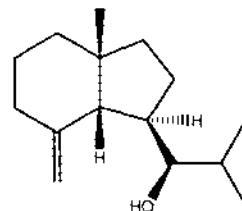
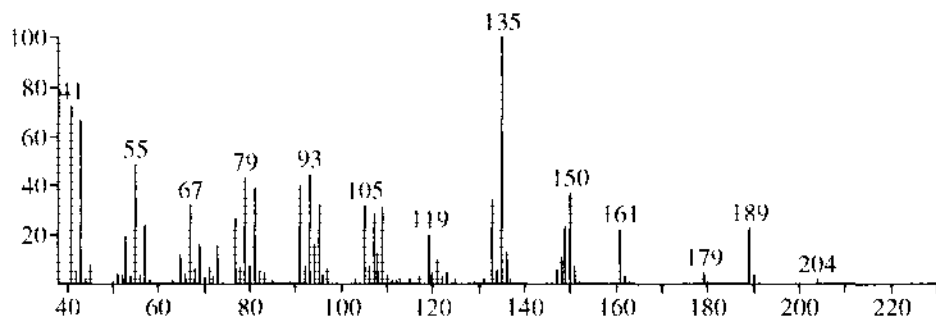
RT: 30.45 AI: 1540 KI: 1541 **Dracunculifolol <10-epi-cis->**

CAS#: 162657-65-0 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 630

CN: 1H-indene-1-methanol, octahydro-3a-methyl-7-methylene- α -(1-methylethyl)-, (1a(R*),3a α ,7a α)-

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl



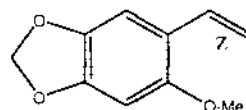
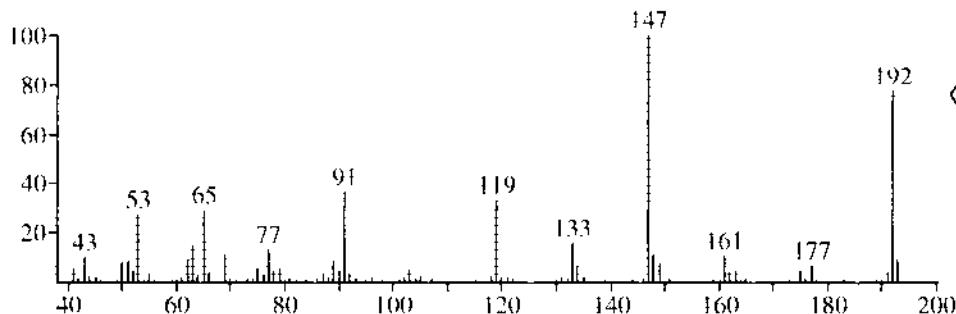
RT: 30.46 AI: 1540 KI: 1541 **Carpacin <(Z)->**

CAS#: 23953-63-1 MF: C₁₁H₁₂O₃ FW: 192 MSD LIB#: 486

CN: 1,3-benzodioxole, 5-methoxy-6-(1-propenyl)-, (Z)-

Synonyms: none

Source: *Crocea exalta* ex J.J. Brophy



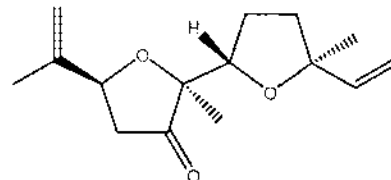
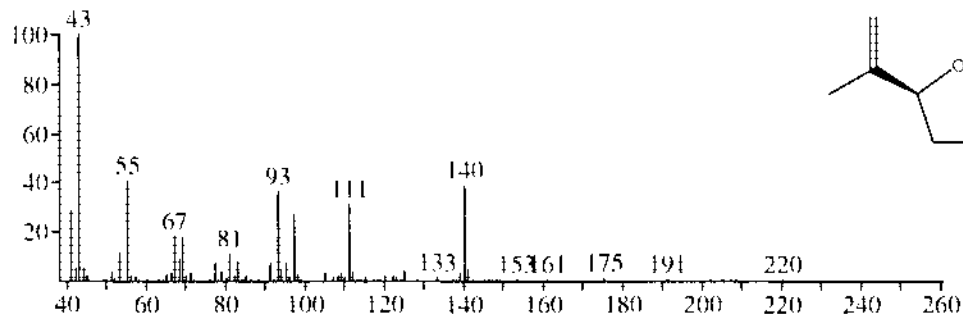
RT: 30.47 AI: 1540 KI: 1542 **Laciniata furanone E**

CAS#: 199115-10-1 MF: C₁₅H₂₂O₃ FW: 250 MSD LIB#: 206

CN: (2,2'-bifuran)-3(2H)-one, 5'-ethenylhexahydro-2,5'-dimethyl-5-(1-methylethenyl)-, (2S-(2a(2'R*,5'R*),5a))-

Synonyms: none

Source: *Artemisia lactinata* oil ex P. Weyerstahl



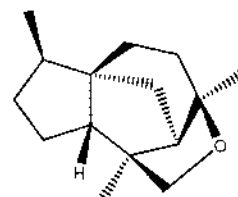
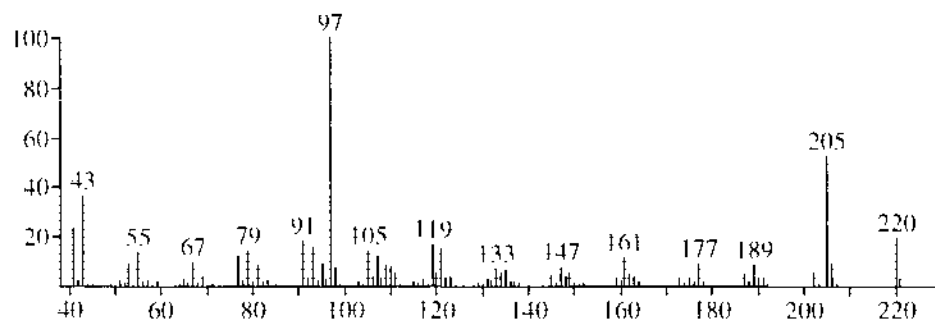
RT: 30.50 AI: 1541 KI: 1542 **Cedranoxide <8,14->**

CAS#: 18319-31-8 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 936

CN: 1H-1,6a-ethanopentalenol(1,2-cifuran, octahydro-1,3a,6-trimethyl-, (1R-(1a,3aβ,3bα,6a,6aS*,7aα))-

Synonyms: none

Source: *Juniperus recurva* wood oil ex J. Oda, J. Agric. Biol. Chem. 41:201(1977)



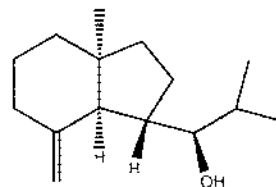
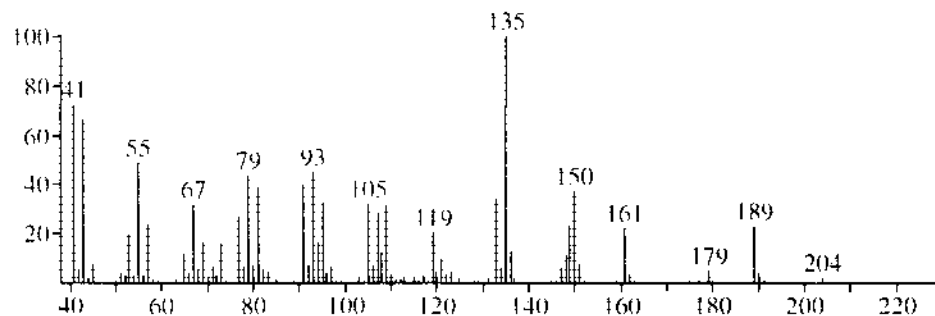
RT: 30.50 AI: 1541 KI: 1542 **Dracunculifolol <cis->**

CAS#: 164984-39-8 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 629

CN: not assigned

Synonyms: none

Source: ref. cpd., P. Weyerstahl: 0.30% *Baccharis dracunculifolia*, FEJ 11:15(1996)



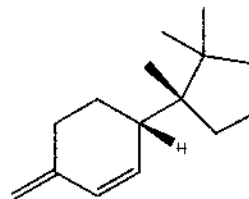
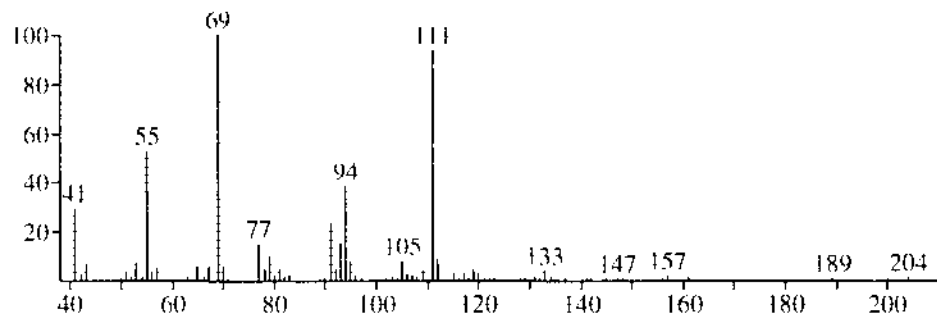
RT: 30.54 AI: 1542 KI: 1543 **Cuprenene <δ>**

CAS#: 98093-94-8 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1874

CN: cyclohexene, 3-methylene-6-(1,2,2-trimethylcyclopentyl)-[S-(R*,S*)]-

Synonyms: none

Source: *Bazzania trilobata* ex. W. Koenig



RT: 30.56 AI: 1542 KI: 1544 **Sesquisabinene hydrate <cis> (IPP vs. OH)**

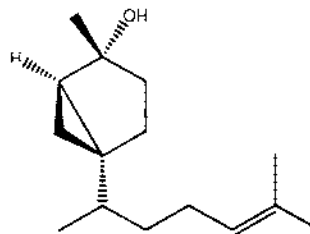
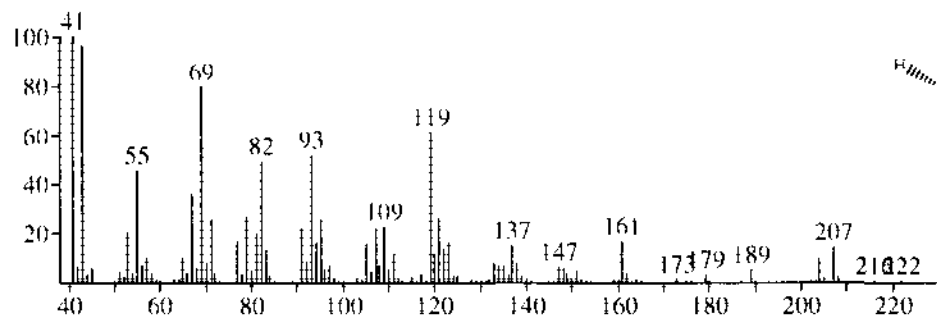
CAS#: 58319-05-4 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 260

CN: bicyclo[3.1.0]hexan-2-ol, 5-(1,5-dimethyl-4-hexenyl)-2-methyl-

Synonyms: old trans-sesquisabinene hydrate (trans- relative to IPP vs. Me)

Source: Ayon oil ex P. Weyerstahl; 2.00 *Ayendron barbeyana*, FFI 4:93(1989);

0.90% *Strobilanthes auriculatus*; 0.90% *Zingiber officinale*



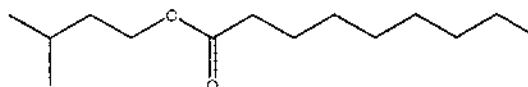
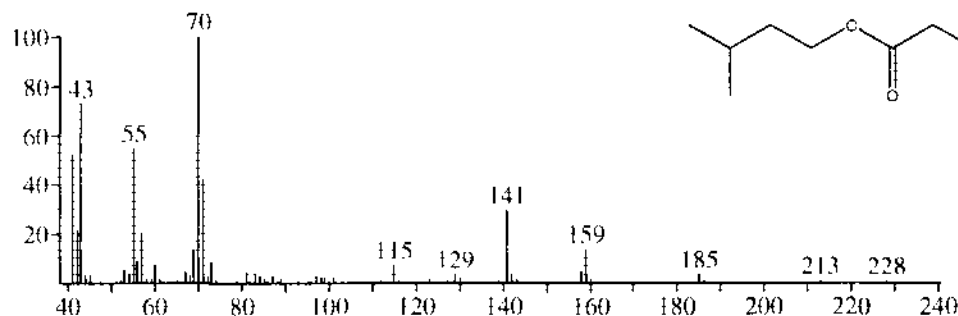
RT: 30.59 AI: 1543 KI: 1545 **Isoamyl nonanoate**

CAS#: 7779-70-6 MF: C₁₄H₂₈O₂ FW: 228 MSD LIB#: 1604

CN: nonanoic acid, 3-methylbutyl ester

Synonyms: isopentyl nonanoate

Source: Aldrich Chem.



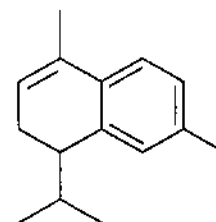
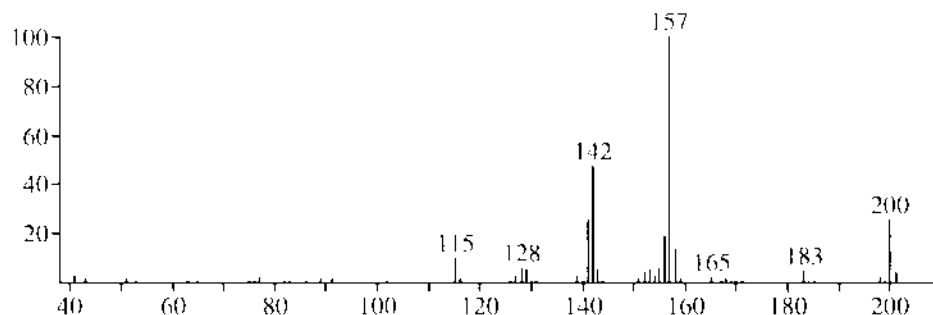
RT: 30.62 AI: 1544 KI: 1545 **Calacorene <α>**

CAS#: 21391-99-1 MF: C₁₅H₂₀ FW: 200 MSD LIB#: 1344

CN: naphthalene, 1,2-dihydro-4,7-dimethyl-1-(1-methylethyl)-

Synonyms: cadina-1,3,5,9-tetraene

Source: Port oxford cedar, C15s ex C.A. McDaniel; 5.00% *Brachylaena hutchinsii*, Dragoco Rept. 5:87(1973); 3.55% *Acorus Calamus*; 2.90% *Cabralea cangerana*



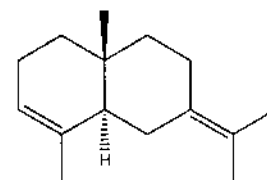
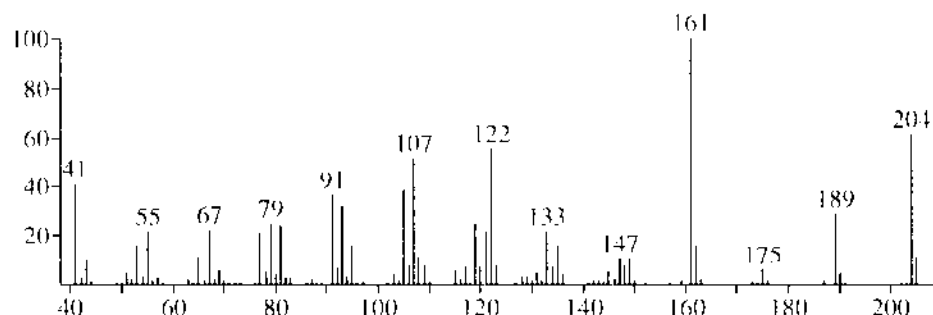
RT: 30.66 AI: 1545 KI: 1546 **Selina-3,7(11)-diene**

CAS#: 6813-21-4 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 133

CN: naphthalene, 1,2,3,4,4a,5,6,8a-octahydro-4a,8-dimethyl-2-(1-methylethylidene)-, (4aR-trans)-

Synonyms: eudesma-3,7(11)-diene

Source: comm. *Amyris* oil Port au Prince, Haiti; 11.00% *Eupatorium stoechadosmum*, JEOR 3:115(1991); 3.50% *Amyris balsamifera*; 1.20% *Curcuma aeruginosa*



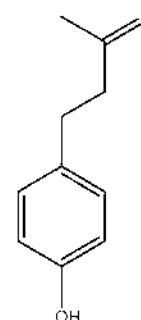
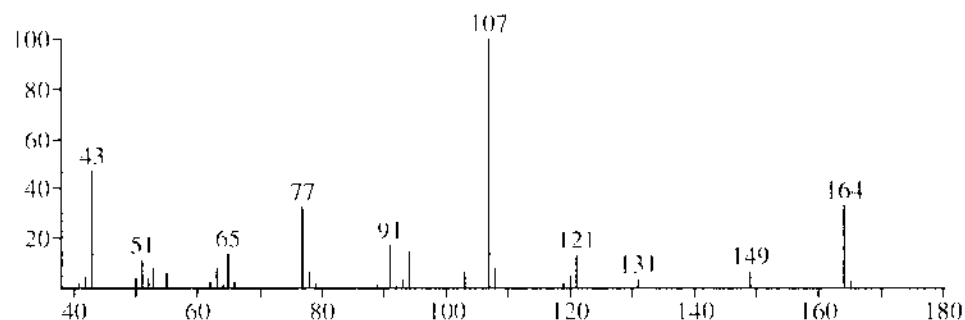
RT: 30.67 AI: 1545 KI: 1547 **Raspberry ketone**

CAS#: 5471-51-2 MF: C₁₀H₁₂O₂ FW: 164 MSD LIB#: 1598

CN: 2-butanone, 4-(4-hydroxyphenyl)-

Synonyms: rheosmin, frambione, oxyphenalon

Source: Aldrich Chem.



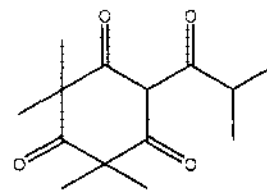
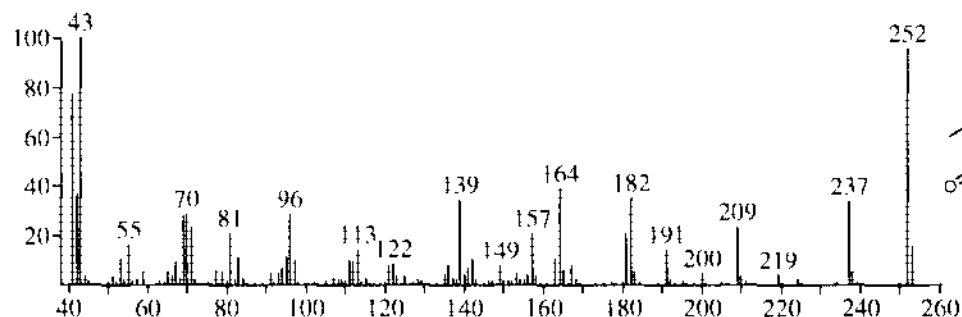
RT: 30.69 AI: 1545 KI: 1547 **Flavesone**

CAS#: 22595-45-5 MF: C₁₄H₂₀O₄ FW: 252 MSD LIB#: 1055

CN: 1,3,5-cyclohexanetrione, 2,2,4,4-tetramethyl-6-(2-methyl-1-oxopropyl)-

Synonyms: none

Source: Manuka oil ex Elizabeth Stahl-Biskup



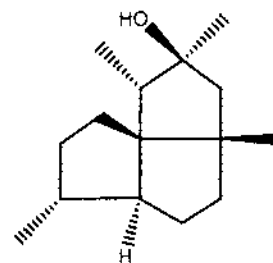
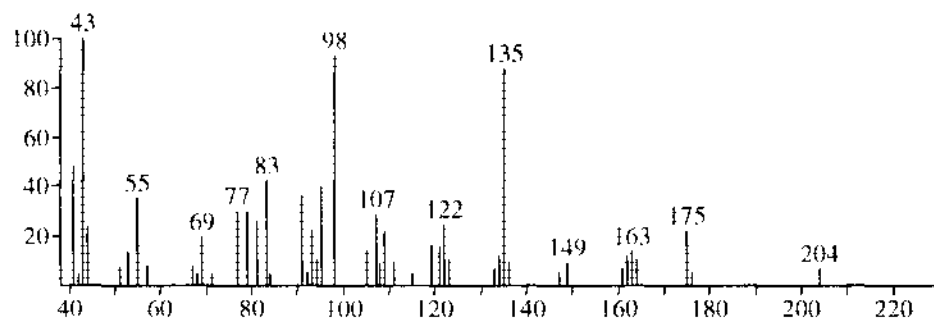
RT: 30.70 AI: 1546 KI: 1547 **Silphiperfolan-6-β-ol**

CAS#: 203714-24-3 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 644

CN: cyclopenta(c)pentalen-2-ol, decahydro-1,2,3a,6-tetramethyl-, (1S,2S,3aS,5aS,6R,8aR)-

Synonyms: none

Source: *Echinopos giganteus* oil ex P. Weyerstahl



RT: 30.72 AI: 1546 KI: 1548 **Hedycaryol**

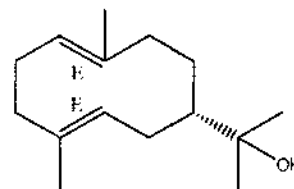
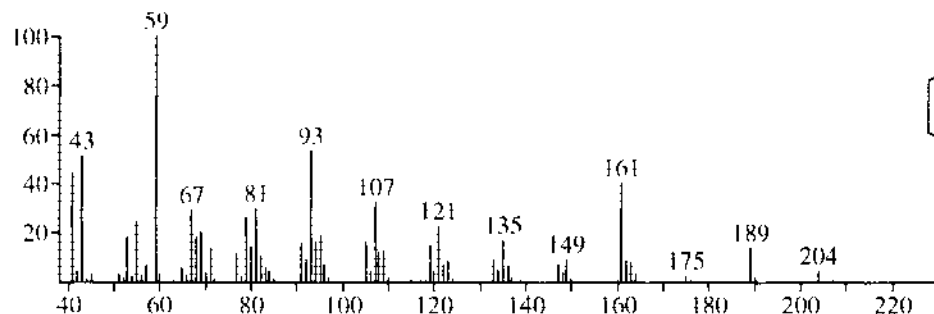
CAS#: 21657-90-9 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1803

CN: 3,7-cyclodecadiene-1-methanol, α,α,4,8-tetramethyl-, (1S,3E,7E)-

Synonyms: 7βH-germacra-1(10),4-dien-11-ol

Source: ref. cpd. ex Ian Southwell; 13.20% *Hyssopus officinalis* (stem), FEJ 6:69(1991);

5.80% *Hyssopus officinalis* (leaf); 1.80% *Hyssopus officinalis* (flower)



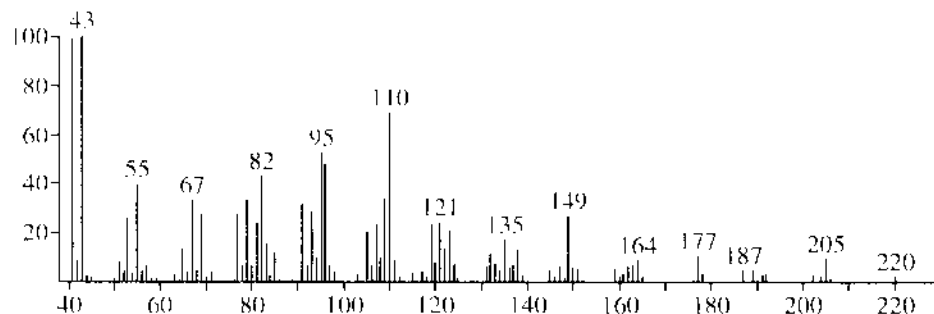
RT: 30.74 AI: 1547 KI: 1548 **Italicene epoxide**

CAS#: 104188-24-1 MI: C₁₅H₂₄O FW: 220 MSD LIB#: 889

CN: cyclopenta[2,3']cyclobuta[1,2':3,4]benz[1,2-b]oxirene, decahydro-2,2,5,7a-tetramethyl-, (1aα,1bβ,2aα,5a,5aS*,7aα)-

Synonyms: none

Source: ref. epd. ex P. Weyerstahl



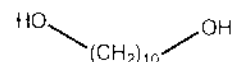
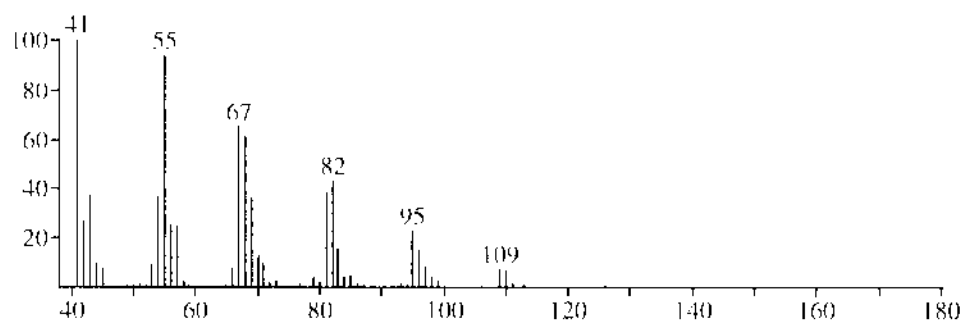
RT: 30.75 AI: 1547 KI: 1549 **Decanediol <1,10>**

CAS#: 112-47-0 MI: C₁₀H₂₂O₂ FW: 174 MSD LIB#: 571

CN: 1,10-decanediol

Synonyms: decamethylenediol; decamethylene glycol; 1,10-dihydroxydecane

Source: ref. epd. ex E. von Rudloff



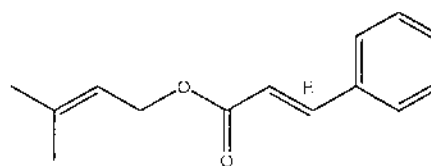
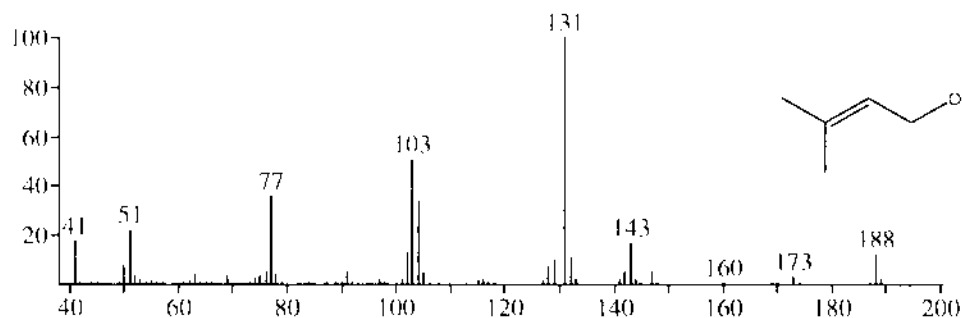
RT: 30.78 AI: 1548 KI: 1549 **Allyl cinnamate <(E)>**

CAS#: 56289-56-6 MI: C₁₂H₁₂O₂ FW: 188 MSD LIB#: 2190

CN: 2-propenoic acid, 3-phenyl-, 2-propenyl ester (2E)-

Synonyms: trans-allyl cinnamate

Source: Bedoukian Res.



RT: 30.78 AI: 1548 KI: 1549 **Elemol**

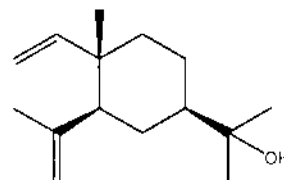
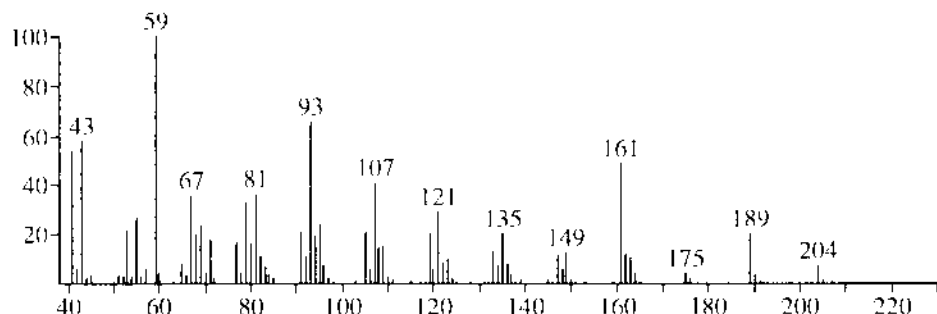
CAS#: 639-99-6 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 918

CN: cyclohexanemethanol, 4-ethenyl- $\alpha,\alpha,4$ -trimethyl-3-(1-methylethenyl)-, (1R, (1 α ,3 α ,4 β))-

Synonyms: none

Source: *Juniperus monticola* f. *compacta* leaf oil, Adams #2580; 15.00% *Cararium luzonicum*,

Perf. & Flav 5:1,57(1980); 14.90% *Xylopi aethiopica* (leaf); 14.78% *Chamaecyparissus obtusa*



RT: 30.79 AI: 1548 KI: 1550 **Agarofuran <α>**

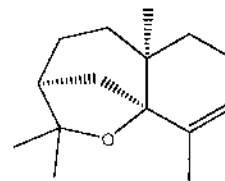
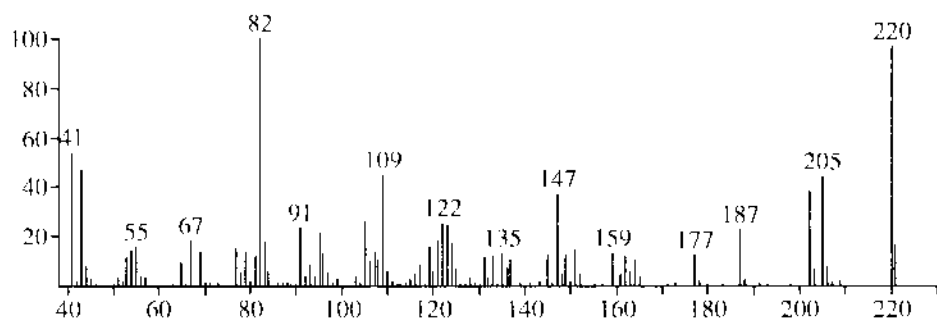
CAS#: 5956-12-7 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 140

CN: 2H-3,9a-methano-1-benzoxepin, 3,4,5,5a,6,7-hexahydro-2,2,5a,9-tetramethyl-, (3R-(3 α ,5 α ,9 α))-

Synonyms: dehydrodeoxybaimuxinol

Source: *Amyris*, Commercial oil, Haiti; 1.00% *Amyris balsamifera*, Constituents ineditis de l'essence del Santal Amyris, B. Corbier, et al., in: Proceedings

"La Chimie des Terpenes", France(April 24/1986);0.50% *Amyris balsamifera*



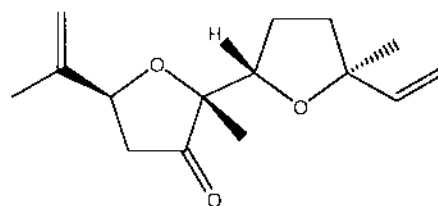
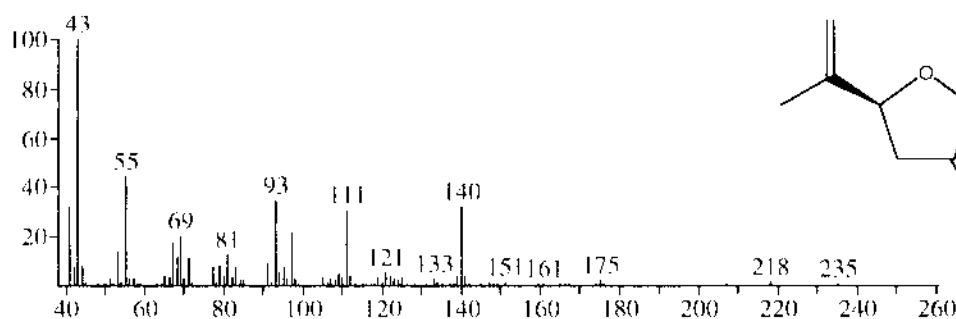
RT: 30.80 AI: 1548 KI: 1550 **Laciniata furanone H**

CAS#: 147663-93-2 MF: C₁₅H₂₂O₃ FW: 250 MSD LIB#: 207

CN: (2,2'-bifuran)-3(2H) one, 5'-ethenylhexahydro-2,5'-dimethyl-5-(1-methylethenyl)-, (2R-(2 α 2'S*,5'S*),5 β))-

Synonyms: none

Source: *Artemisia lactinata* oil ex P. Weyerstahl; 0.25% *Artemisia persica*, JFOR 4:1(1992)



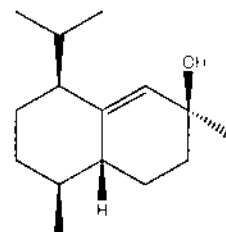
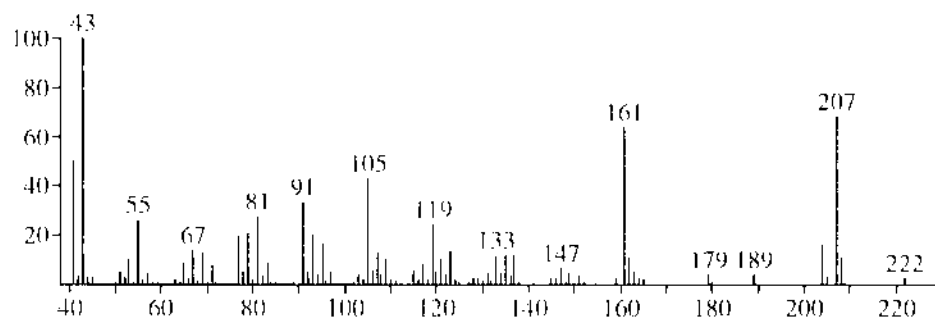
RT: 30.86 AI: 1550 KI: 1551 **Muurol-5-en-4- β -ol <cis>**

CAS#: 157374-46-4 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 503

CN: 2-naphthalenol, 2,3,4,4a,5,6,7,8-octahydro-2,5-dimethyl-8-(1-methylethyl)-, (2S,4aR,5S,8S)-

Synonyms: hinokienol, β -

Source: *Cupressus arizonica* leaf oil, fraction 7 ex Larry Cool



RT: 30.86 AI: 1550 KI: 1551 **Silphiperfol-5-en-3-one B**

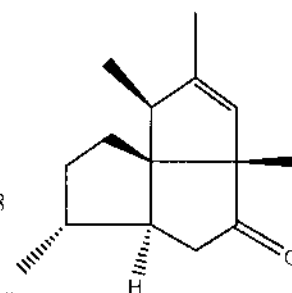
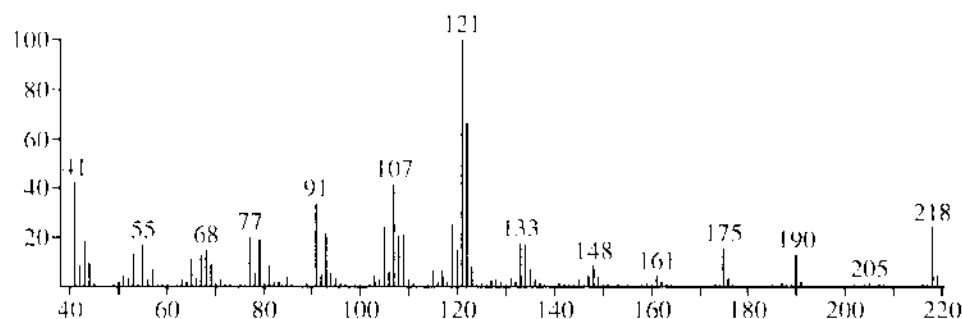
CAS#: 199014-11-4 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 208

CN: cyclopenta(c)pentalen-4(5H)-one, 1,3a,5a,6,7,8-hexahydro-1,2,3a,6-tetramethyl-,

(1S-(1 α ,3 α ,5 α ,6 β ,8 α S))-

Synonyms: none

Source: *Artemisia lactinata* oil ex P. Weyerstahl



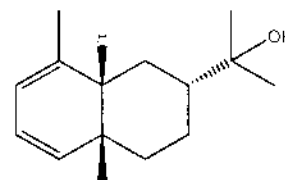
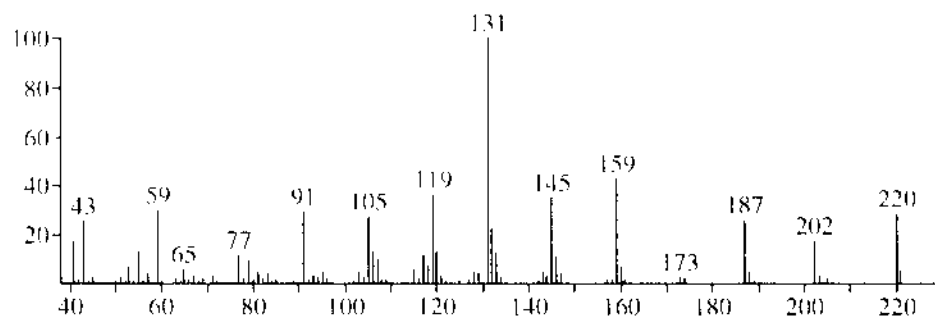
RT: 30.88 AI: 1550 KI: 1552 **Occidentalol**

CAS#: 473-17-6 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1197

CN: 2-naphthalenemethanol, 1,2,3,4,4a,8a-hexahydro- $\alpha,\alpha,4a,8$ -tetramethyl-, (2R-(2 α ,4 $\alpha\beta$,8 $\alpha\beta$))-

Synonyms: eudesma-1,3-dien-11-ol, 10- α -

Source: ref. cpd. ex E. von Rudloff; 23.94% *Thuja occidentalis* (wood), JNOR 7:489(1995)



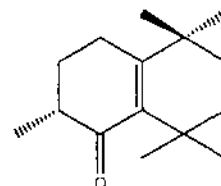
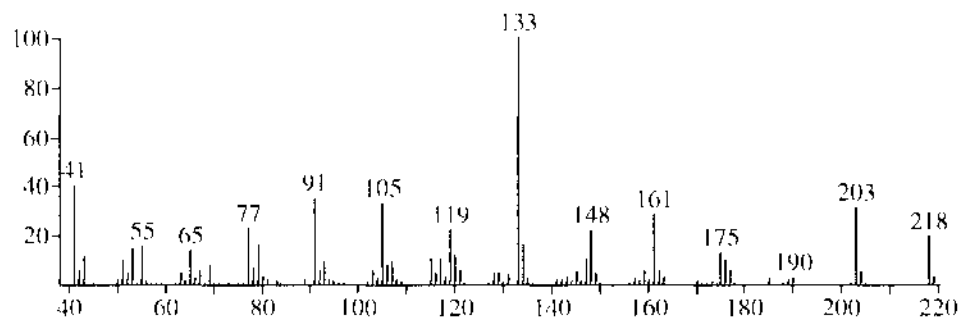
RT: 30.89 AI: 1550 KI: 1552 **Lippifoli-1(6)-en-5-one**

CAS#: 90851-05-1 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 1019

CN: 4H-cyclopropa(a)naphthalen-4-one, 1,1a,2,3,5,6,7,7b-octahydro-3,3,5,7b-tetramethyl-, (1aR-(1a α ,5 β ,7b α))-

Synonyms: africanone

Source: *Lippia integrifolia* oil ex JA Zygadlo



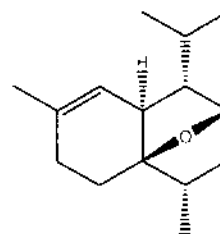
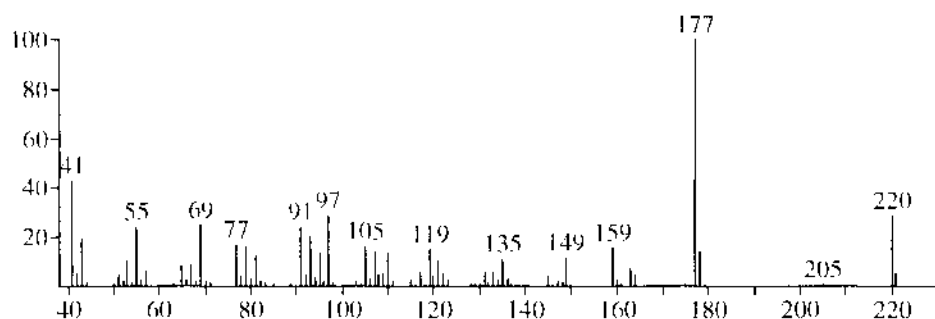
RT: 30.94 AI: 1552 KI: 1553 **Cadinene ether <cis->**

CAS#: 151593-38-3 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 342

CN: 2H-2,4a-epoxynaphthalene, 1,3,4,5,6,8a-hexahydro-4,7-dimethyl-1-(1-methylethyl)-, (1S-(1 α ,2 β ,4 α ,4a β ,8a α))-

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl



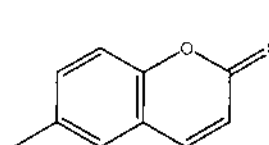
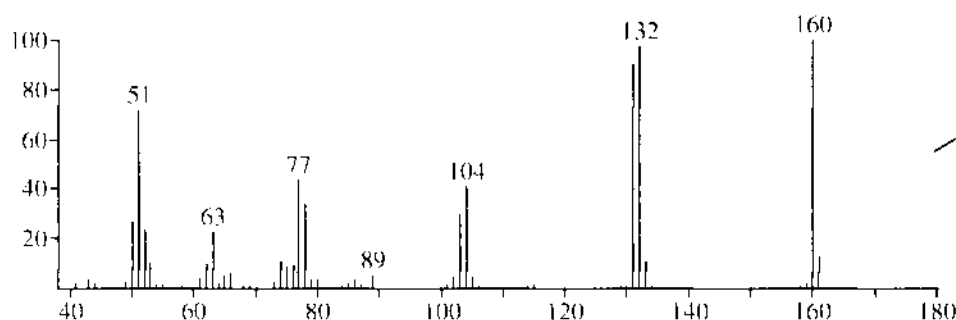
RT: 30.98 AI: 1553 KI: 1554 **Coumarin <6-methyl->**

CAS#: 92-48-8 MF: C₁₀H₈O₂ FW: 160 MSD LIB#: 477

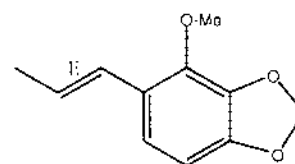
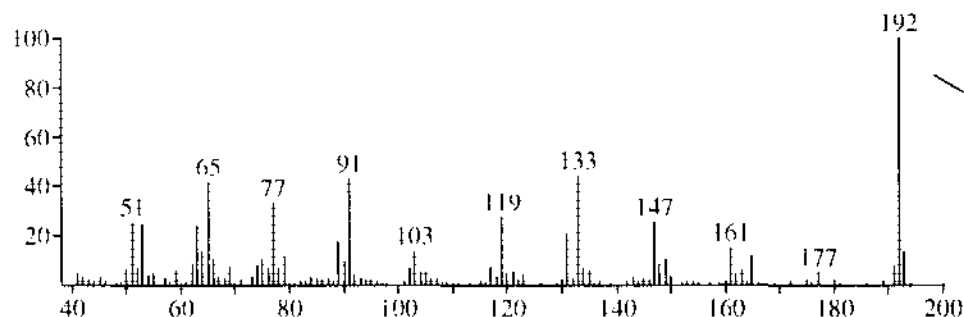
CN: 2H-1-benzopyran-2-one, 6-methyl-

Synonyms: 6-methylbenzopyrone; toncarine

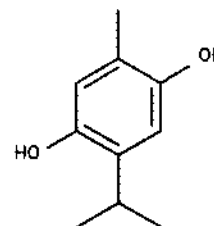
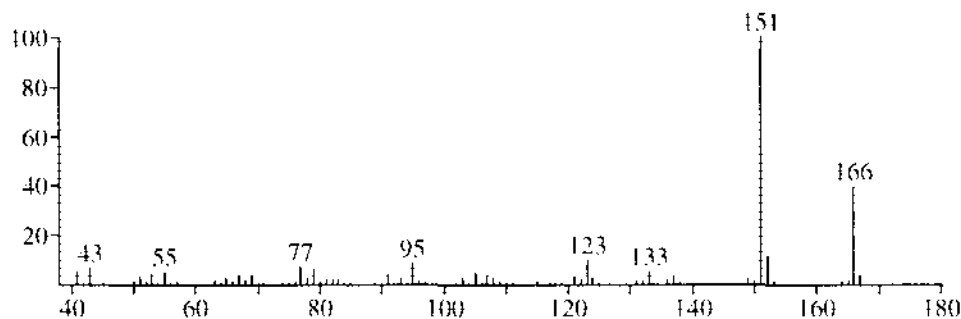
Source: ref. cpd. ex E von Rudloff



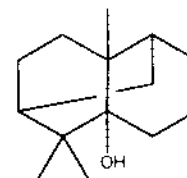
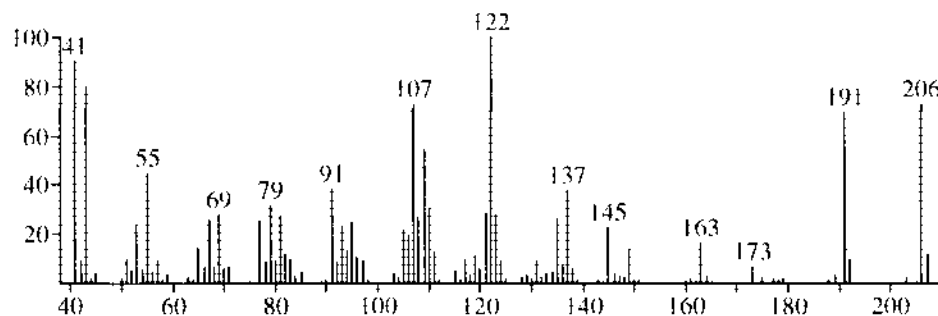
RT: 30.98 AI: 1553 KI: 1554 **Isocroceacin <(E)->**
 CAS#: 194609-21-7 MF: C₁₁H₁₂O₃ FW: 192 MSD LIB#: 487
 CN: 1,3-benzodioxole, 4-methoxy-5-(1-propenyl)-, (E)-
 Synonyms: none
 Source: *Crocea exalta* oil ex JJ Brophy



RT: 30.99 AI: 1553 KI: 1555 **Thymohydro quinone**
 CAS#: 2217-60-9 MF: C₁₀H₁₄O₂ FW: 166 MSD LIB#: 1159
 CN: 1,4-benzenediol, 2-methyl-5-(1-methylethyl)-
 Synonyms: p-cymen-2,5-diol; thymoquinol
 Source: *Nigella sativa* seed oil ex EA Aboutable; 0.64% *Nigella sativa*,
 p. 49, in: Prog. in Ess. Oil Research, E.-J. Brunke Ed., Gruyter Publ., Berlin (1986)



RT: 31.00 AI: 1553 KI: 1555 **Norpatchoulenol**
 CAS#: 41429-52-1 MF: C₁₄H₂₂O FW: 206 MSD LIB#: 1644
 CN: 1,6-methanonaphthalen-1(2H)-ol, 4a,5,6,7,8,8a-hexahydro-8a,
 9,9-trimethyl-, (1R,4aS,6R,8aS)-
 Synonyms: none
 Source: Patchouli oil ex RS Thakur, India; 1.08% *Pogostemon cablin*, FFI 5:104(1990)



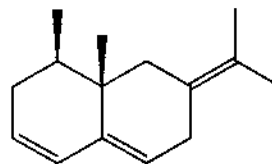
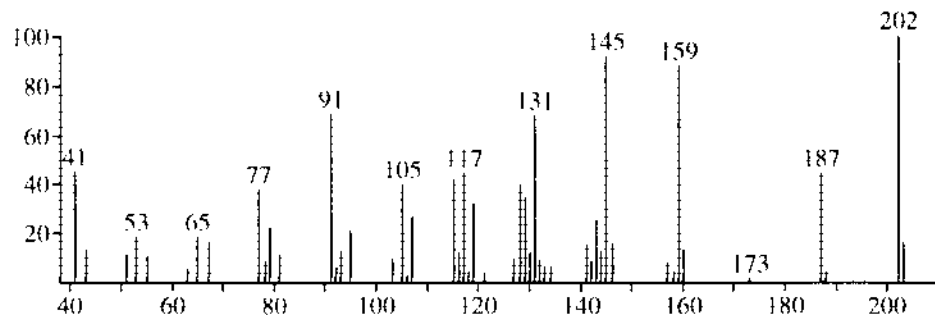
RT: 31.02 AI: 1554 KI: 1555 **Vetivenene <β>**

CAS#: 27840-40-0 MF: C₁₅H₂₂ FW: 202 MSD LIB#: 1952

CN: naphthalene, 1,2,6,7,8,8a-hexahydro-1,8a-dimethyl-7-(1-methylethylidene)-, (1R,8aS)-

Synonyms: none

Source: vetiver oil, Haiti; 10.00% *Vetiveria zizanoides*, Rivista Ital. EPPOS 54:315(1972)



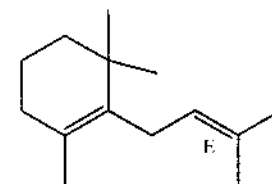
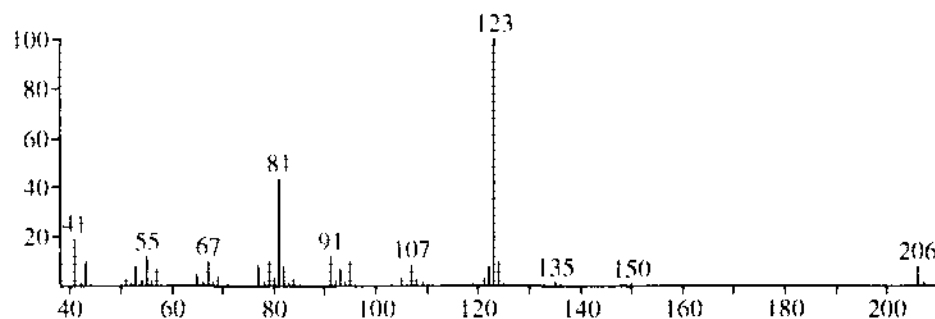
RT: 31.07 AI: 1555 KI: 1556 **Veltonal <(E)>**

CAS#: 14398-40-4 MF: C₁₄H₂₂O FW: 206 MSD LIB#: 2028

CN: 2-butenal, 2-methyl-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-, (2E)-

Synonyms: none

Source: Bedoukian Res. ex JJ Brophy



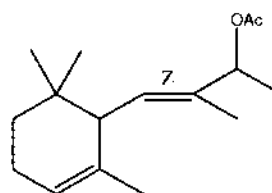
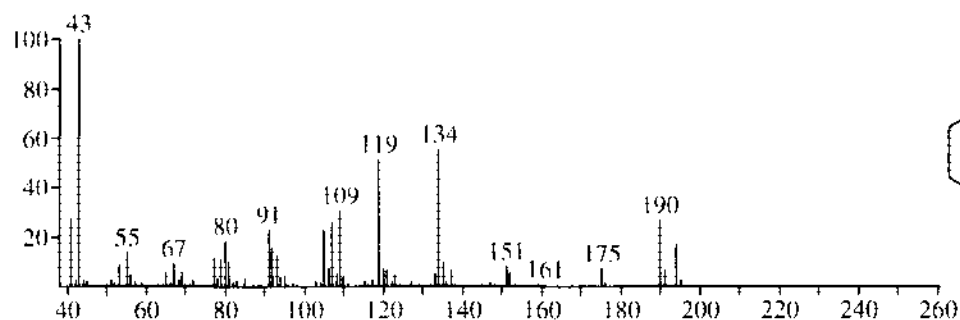
RT: 31.08 AI: 1555 KI: 1557 **Ionol acetate <(Z)-α-isomethyl>**

CAS#: 000-00-0 MF: C₁₆H₂₆O₂ FW: 250 MSD LIB#: 2110

CN: 3-buten-2-ol, 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-, acetate, (Z)-

Synonyms: none

Source: Bedoukian Res.



RT: 31.09 AI: 1555 KI: 1557 **Elemicin**

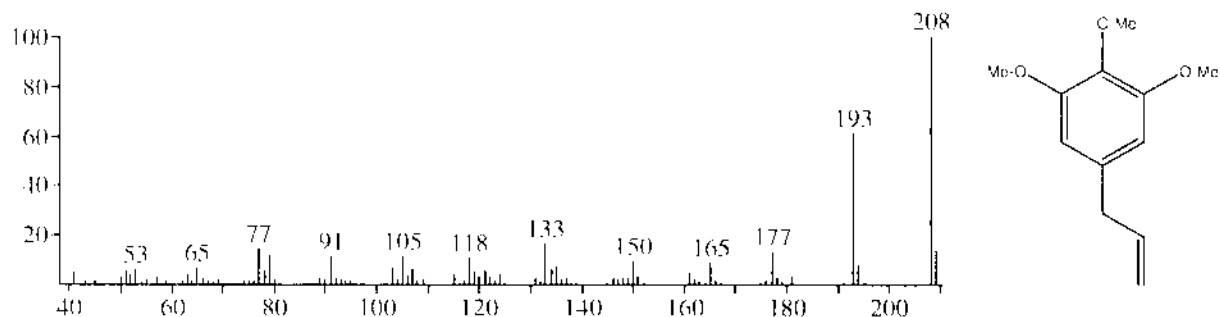
CAS#: 487-11-6 MF: C₁₂H₁₆O₃ FW: 208 MSD LIB#: 614

CN: benzene, 1,2,3-trimethoxy-5-(2-propenyl)-

Synonyms: none

Source: *Diploctenia cachrydifoliae* root oil ex Keith Harkiss; 53.03% *Artemisia dracunculus*,

JEOR 8:563(1996); 33.64% *Artemisia waltonii*; 25.30% *Cymbopogon microstachys*



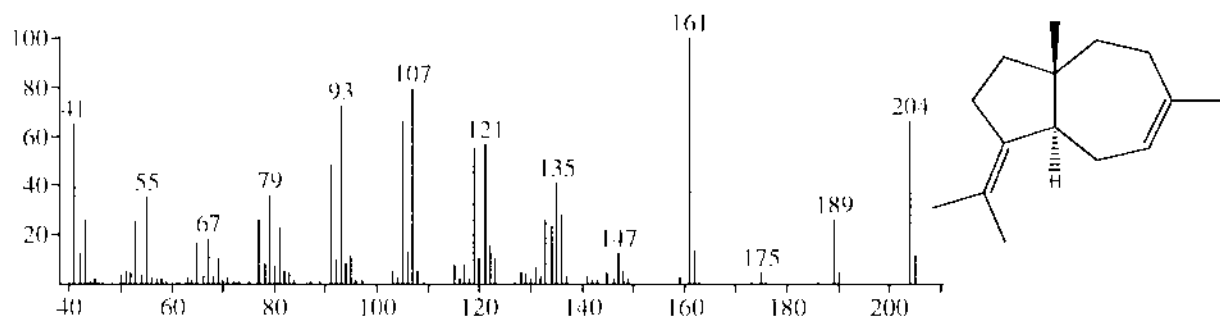
RT: 31.11 AI: 1556 KI: 1557 **Dauca-4(11),7-diene <trans->**

CAS#: 000-00-0 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 1875

CN: not assigned

Synonyms: none

Source: *Bazzania trilobata* oil ex. W. Koenig



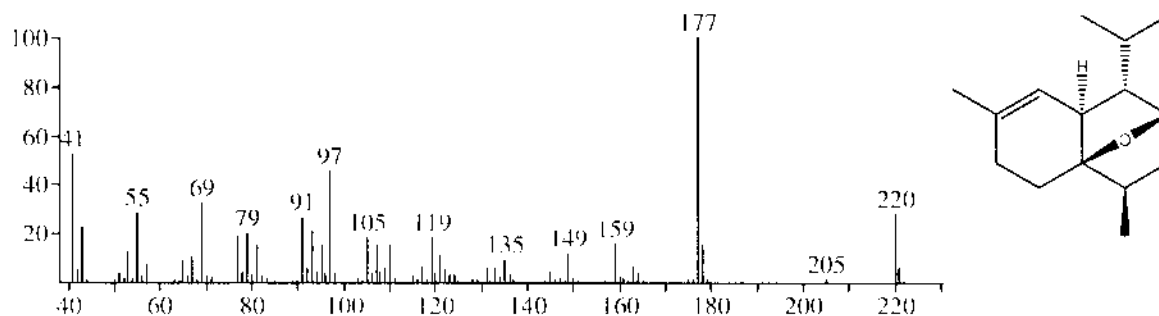
RT: 31.14 AI: 1557 KI: 1558 **Cadinene ether <trans->**

CAS#: 151513-84-7 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 343

CN: 2H-2,4a-epoxynaphthalene, 1,3,4,5,6,8a-hexahydro-4,7-dimethyl-1-(1-methylethyl)-, (1S-(1α,2β,4β,4aβ,8aα))-

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl



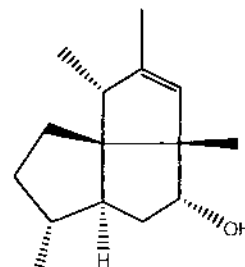
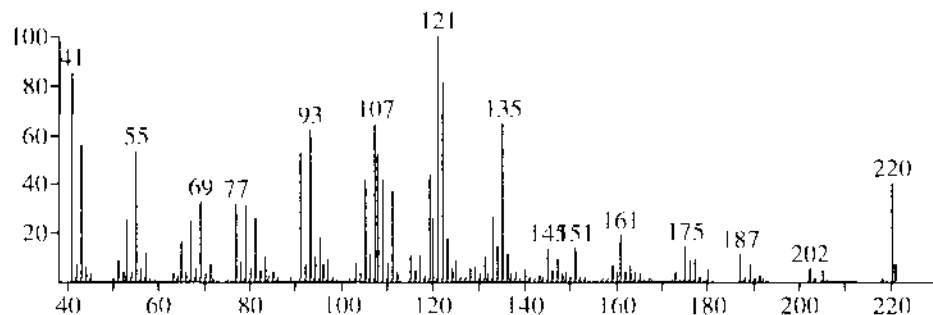
RT: 31.18 AI: 1557 KI: 1559 **Silphiperfol-5-en-3-ol A**

CAS#: 138752-19-9 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 211

CN: cyclopenta(c)pentalen-4-ol, 1,3a,4,5,5a,6,7,8-octahydro-1,2,3a,6-tetramethyl-, (1R-(1 α ,3 α ,4 α ,5 α ,6 α ,8 α R))-

Synonyms: none

Source: *Artemisia lactinata* oil ex P. Weyerstahl



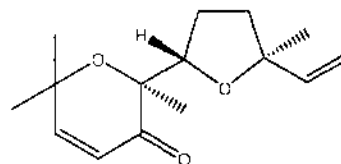
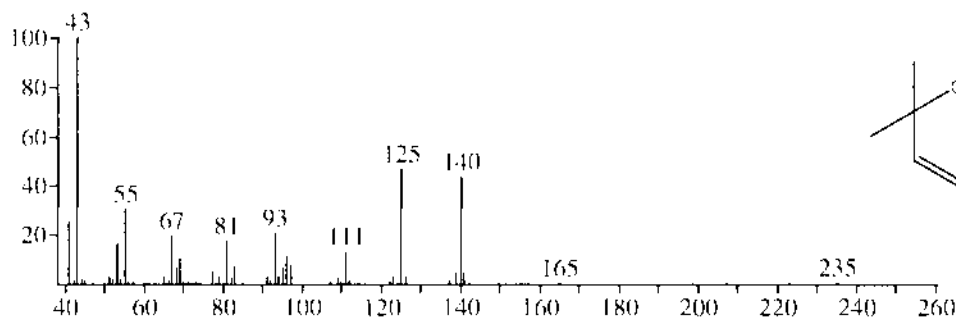
RT: 31.22 AI: 1558 KI: 1560 **Artedouglasia oxide D**

CAS#: 115403-99-1 MF: C₁₅H₂₂O₃ FW: 250 MSD LIB#: 218

CN: 2H-pyran-3(6H)-one, 2-(5-ethenyltetrahydro-5-methyl-2-furanyl)-2,6,6-trimethyl-, (2S-(2 α (R*),5 β))-

Synonyms: none

Source: *Artemisia persica* oil ex P. Weyerstahl; 0.42% *Artemisia persica*, JEOR 4:1(1992)



RT: 31.22 AI: 1558 KI: 1560 **Eremophila ketone**

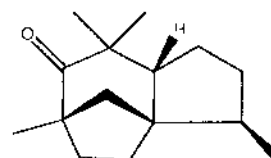
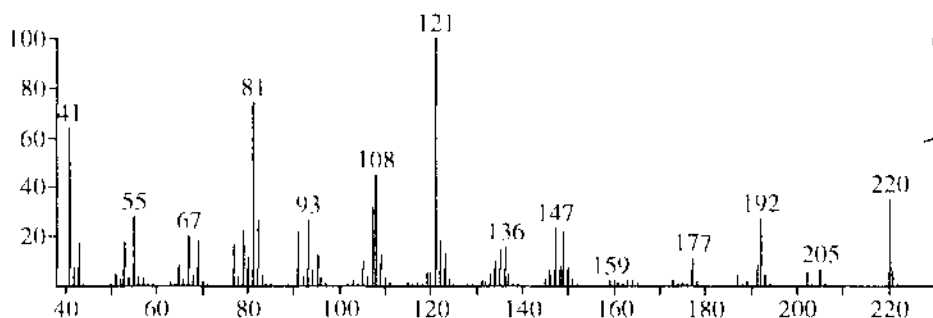
CAS#: 158930-41-7 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1667

CN: 1H-3a,6-methanoazulen-7(4H)-one, hexahydro-3,6,8,8-tetramethyl-,

(3 α ,3 α ,6 α ,8 α)-

Synonyms: none

Source: *Eremophila mitchelli* oil ex Ian Southwell



RT: 31.24 AI: 1559 KI: 1561 **Germacrene B**

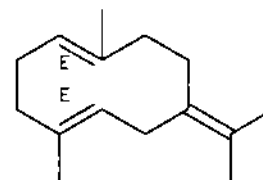
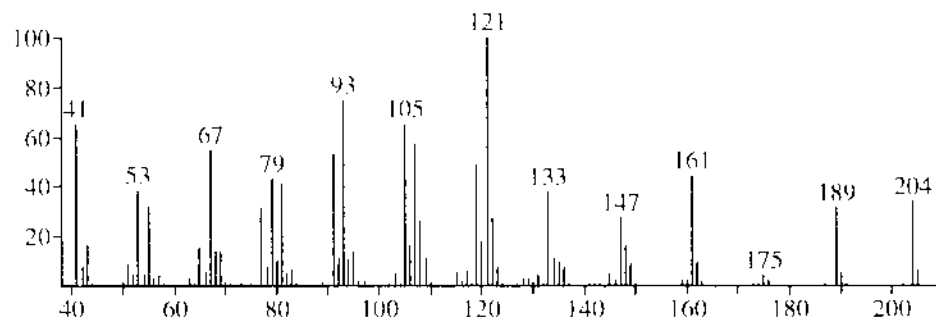
CAS#: 15423-57-1 MF: C₁₅H₂₄ FW: 204 MSD LIB#: 743

CN: 1,5-cyclodecadiene, 1,5-dimethyl-8-(1-methylethylidene)-, (E,E)-

Synonyms: germacre-1(10),4,7(11)-triene

Source: *Carum carvi* hydrocarbons ex E. Stahl-Biskup; 30.00% *Carum carvi* (root),

FIJ 2:83(1987); 13.24% *Eupatorium maximilianii*; 8.53% *Eugenia uniflora* (leaf)



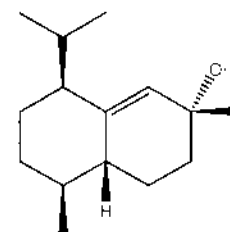
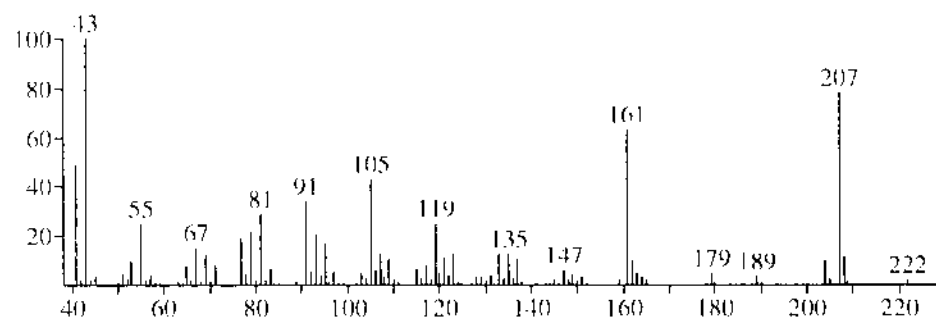
RT: 31.24 AI: 1559 KI: 1561 **Muurol-5-en-4-ol <cis->**

CAS#: 157374-45-3 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 504

CN: 2-Naphthalenol, 2,3,4,5a,5,6,7,8-octahydro-2,5-dimethyl-8-(1-methylethyl)-, (2R,4aR,5S,8S)

Synonyms: none

Source: *Cupressus arizonica* leaf oil, fraction 7 ex Larry Cool



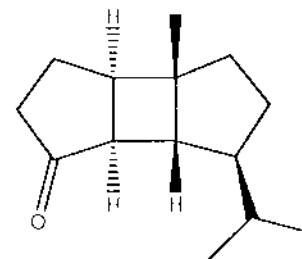
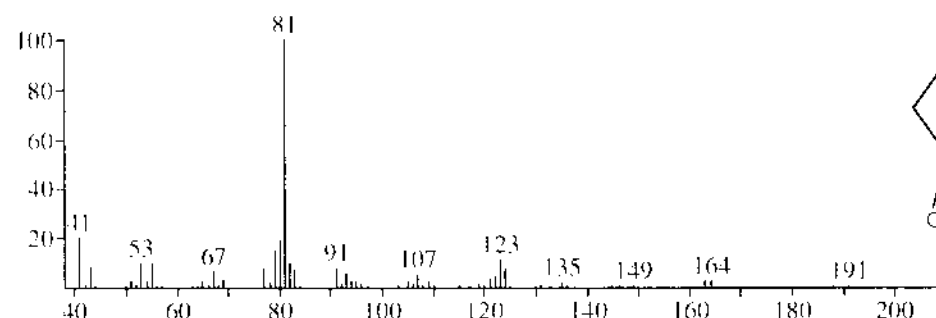
RT: 31.32 AI: 1561 KI: 1563 **Bourbonanone <1-nor->**

CAS#: 13844-03-6 MF: C₁₄H₂₂O FW: 206 MSD LIB#: 319

CN: cyclobuta(1,2:3,4)dicyclopenten-1(2H)-one, octahydro-3b-methyl-6-(1-methylethyl)-, (3aR-(3aα,3bβ,6β,6aβ,6bα))-

Synonyms: norbourbanan-1-one, 11-; bourbananone, 15-nor-4-

Source: Robertet ex D. Joulain



RT: 31.32 AI: 1561 KI: 1563 **Nerolidol <(E)->**

CAS#: 40716-66-3 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1141

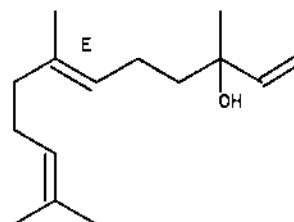
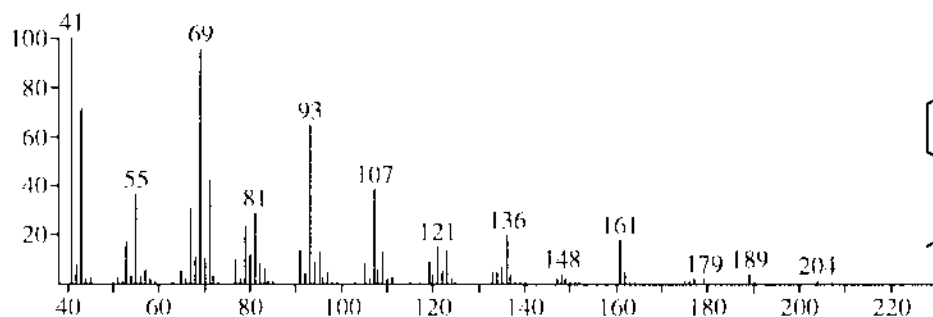
CN: 1,6,10-dodecatrien-3-ol, 3,7,11-trimethyl-, (E)-

Synonyms: none

Source: ref. cpd. ex Robert Doss, USDA; 85.00% *Myrocarpus frondosus*,

p. 891, in: Flav. & Frag.: A World Persp., Lawrence, et al., Elsevier, Amsterdam(1986);

81.50% *Zanthoxylum gardneri*; 58.00% *Cymbidium goeringii* (flower headspace)



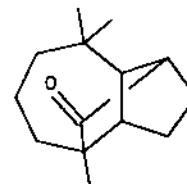
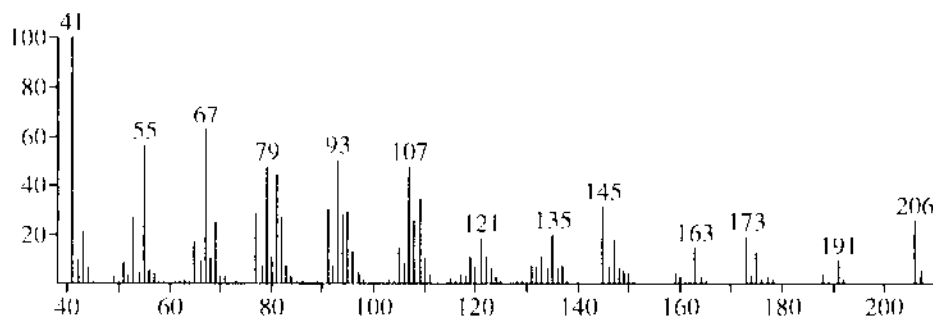
RT: 31.35 AI: 1562 KI: 1563 **Longicamphenylone**

CAS#: 58560-59-1 MF: C₁₄H₂₂O FW: 206 MSD LIB#: 1025

CN: 1,4-methanoazulen-9-one, decahydro-4,8,8-trimethyl-

Synonyms: none

Source: ref. cpd. ex Don Clark



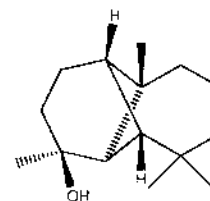
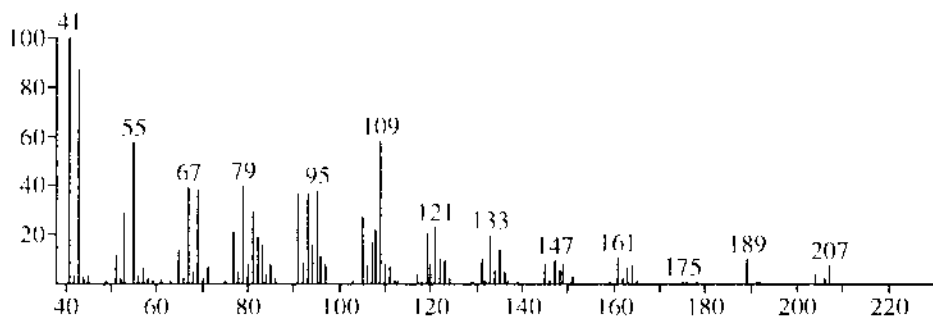
RT: 31.35 AI: 1562 KI: 1563 **Longipinanol <epi->**

CAS#: 54275-23-9 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1034

CN: tricyclo(5,4,0,02,8)undecan-9-ol, 2,6,6,9-tetramethyl-, stereoisomer

Synonyms: none

Source: *Scapania undulata* oil ex Larry Cool



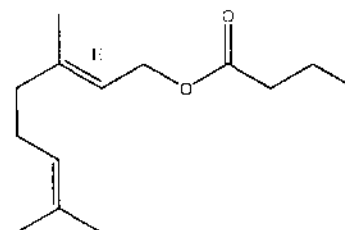
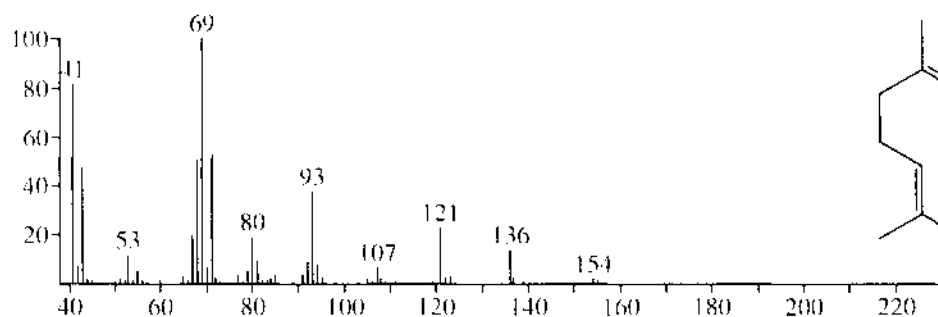
RT: 31.36 AI: 1562 KI: 1564 **Geranyl butanoate**

CAS#: 106-29-6 MF: C₁₄H₂₄O₂ FW: 224 MSD LIB#: 736

CN: butanoic acid, 3,7-dimethyl-2,6-octadienyl ester, (E)

Synonyms: geraniol butyrate; geranyl butanoate

Source: Pfaltz & Bauer



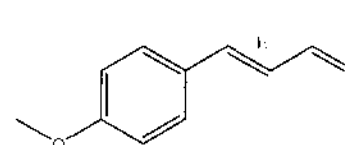
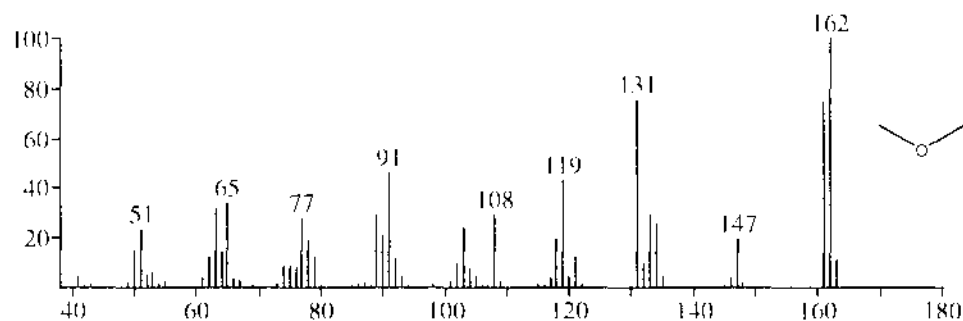
RT: 31.38 AI: 1562 KI: 1564 **Cinnamaldehyde <(E)-p-methoxy->**

CAS#: 24680-50-0 MF: C₁₀H₁₀O₂ FW: 162 MSD LIB#: 441

CN: 2-propenal, 3-(4-methoxyphenyl)-, (2E)

Synonyms: p-methoxycinnamic aldehyde

Source: ICN ex Art Tucker



RT: 31.43 AI: 1564 KI: 1565 **Calacorene <β->**

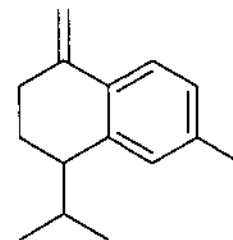
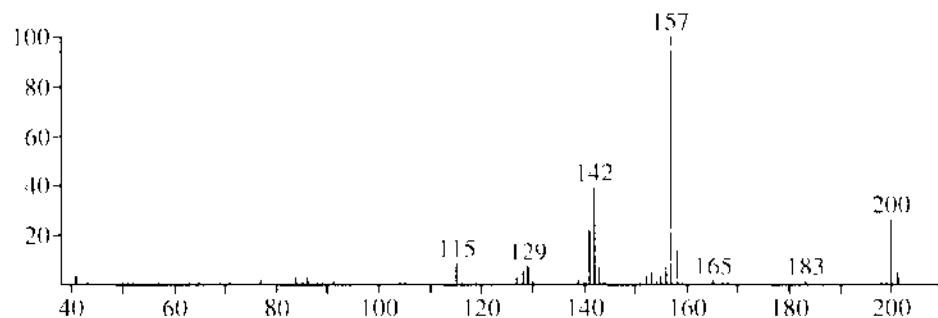
CAS#: 50277-34-4 MF: C₁₅H₂₀ FW: 200 MSD LIB#: 1345

CN: naphthalene, 1,2,3,4-tetrahydro-6-methyl-1-methylene-4-(1-methylethyl)-

Synonyms: none

Source: Port Oxford Cedar, C15s ex C.A. McDaniel; 1.30% *Daniellia oliveri*.

JEOR 9:27(1997); 0.05% *Inula viscosa*; 0.01% *Salvia sclarea*



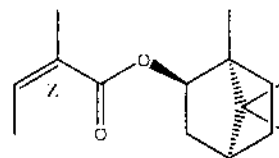
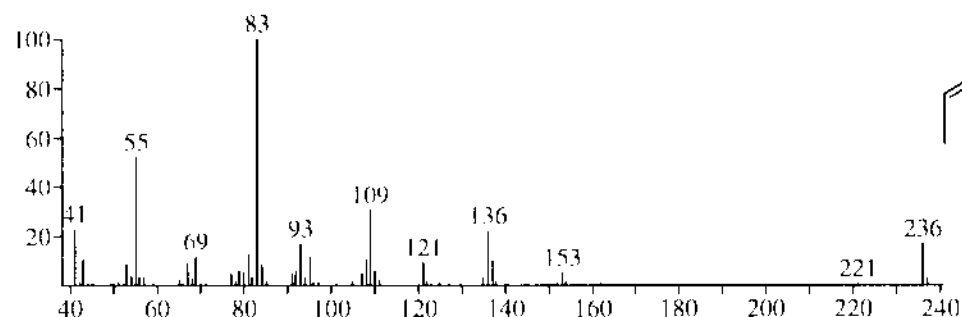
RT: 31.44 AI: 1564 KI: 1565 **Bornyl angelate**

CAS#: 85758-37-8 MF: C₁₅H₂₄O₂ FW: 236 MSD LIB#: 1341

CN: 2-butenic acid, 2-methyl- 1,7,7-trimethylbicyclo(2.2.1)hept-2-yl ester, (1 α ,2 β ,4 α)-

Synonyms: none

Source: *Polyphium involucreatum* ex J.J.C. Scheffer



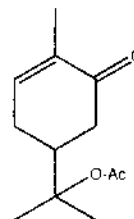
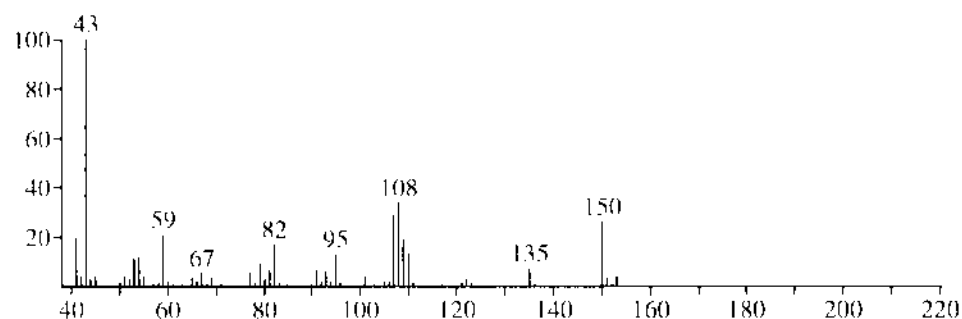
RT: 31.44 AI: 1564 KI: 1565 **Carvotanacetone <8-acetoxy>**

CAS#: 87578-93-6 MF: C₁₂H₁₈O₃ FW: 210 MSD LIB#: 2169

CN: 2-cyclohexen-1-one, 5-(1-(acetyloxy)-1-methylethyl)-2-methyl-

Synonyms: Carvotanacetone acetate; Jacksonone

Source: ref. cpd. ex Peter Weyerstahl: 1.20% *Artemisia absinthum*, Contribucion al estudio de las esencias Espanolas J. Ochoa, et al., Madrid (1974); 0.50% *Cistus ladaniferus*; 0.24% *Eucalyptus globulus* (fruit)



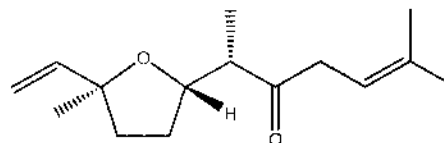
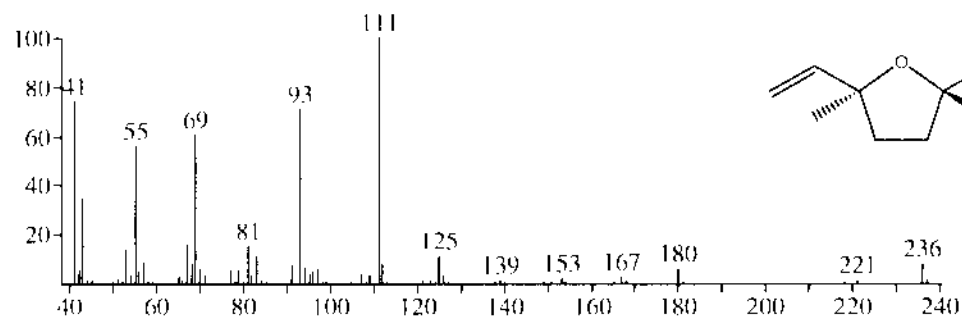
RT: 31.46 AI: 1564 KI: 1566 **Davanone B**

CAS#: 134107-13-4 MF: C₁₅H₂₄O₂ FW: 236 MSD LIB#: 209

CN: 5-hepten-3-one, 2-(5-ethenyltetrahydro-5-methyl-2-furanyl)-6-methyl-, (2S-(2 α (R*),5 β))-

Synonyms: trans-davanone

Source: *Artemisia lactinata* oil ex P. Weyerstahl



RT: 31.47 AI: 1565 KI: 1566 **Dodecanoic acid**

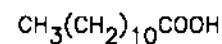
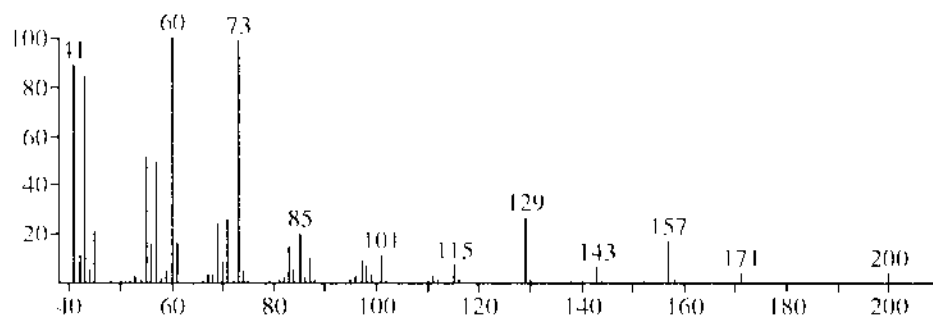
CAS#: 143-07-7 MF: C₁₂H₂₄O₂ FW: 200 MSD LIB#: 625

CN: dodecanoic acid

Synonyms: lauric acid

Source: ref. epd. ex E von Rudloff; 24.26% *Psidium guajava*, FIJ 6:233(1991);

15.64% *Zizyphus guajava*; 9.00% *Machilus bombycina*



RT: 31.48 AI: 1565 KI: 1566 **Hexenyl benzoate <(3Z)->**

CAS#: 25152-85-6 MF: C₁₃H₁₆O₂ FW: 204 MSD LIB#: 954

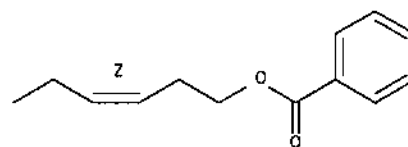
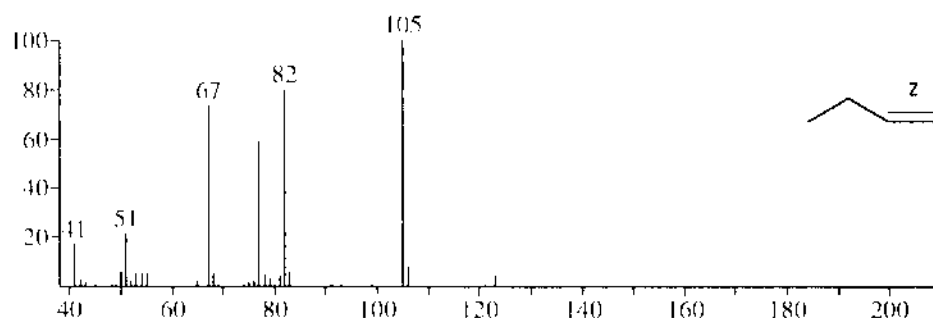
CN: 3-hexen-1-ol, benzoate, (Z)-

Synonyms: cis-3-hexenyl benzoate

Source: Jasmine absolute ex Firmenich ex AF Thomas; 10.00% *Jasminum sambac*,

p. 669, in: Flav & Frag.: A World Persp., Lawrence, et al., Elsevier, Amsterdam(1988);

4.00% *Jasminum officinale*; 2.00% *Pistacia khinjuk*



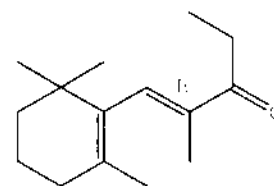
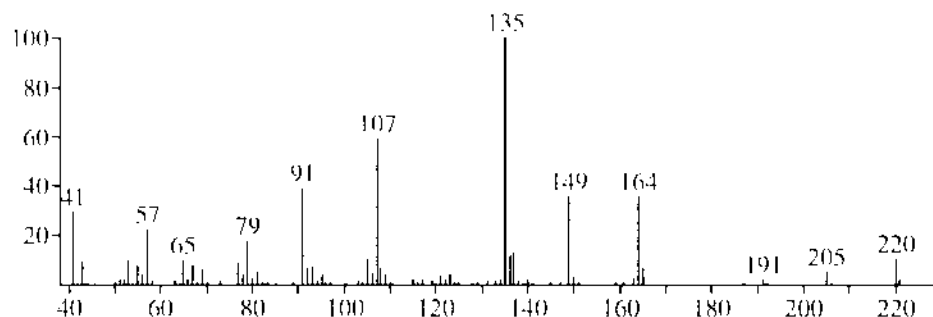
RT: 31.49 AI: 1565 KI: 1567 **Ionone <dimethyl->**

CAS#: 68555-94-2 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 847

CN: 1-penten-3-one, 2-methyl-1-(2,2,6-trimethylcyclohexene-1-yl)-

Synonyms: none

Source: Bedoukian Res. ex Art Tucker



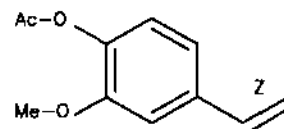
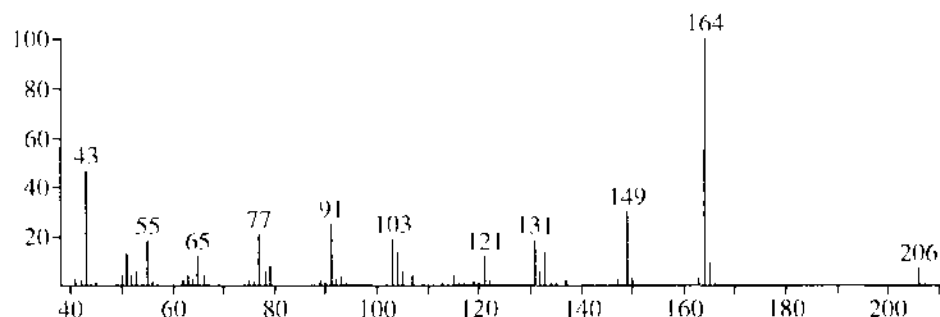
RT: 31.51 AE: 1566 KE: 1567 **Isoeugenol acetate <(Z)->**

CAS#: 97412-23-2 MF: C₁₂H₁₄O₃ FW: 206 MSD LIB#: 862

CN: phenol, 2-methoxy-4-(1-propenyl)-, acetate, (Z)-

Synonyms: none

Source: acetylation of isoeugenol isomers (6432)



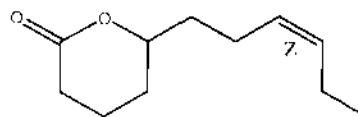
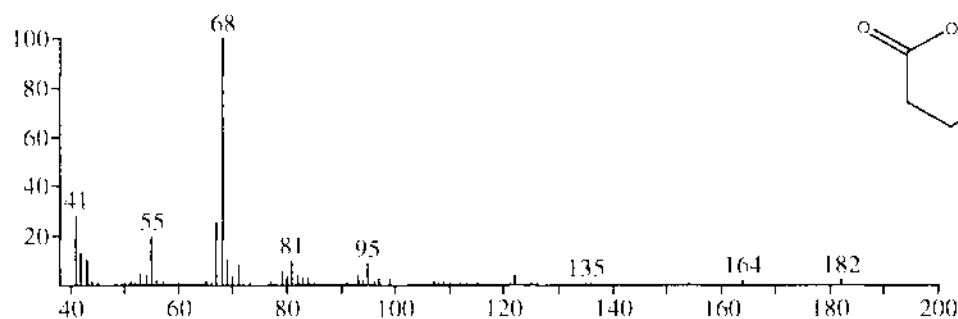
RT: 31.51 AE: 1566 KE: 1567 **Jasmolacetone, extra C <(Z)->**

CAS#: 68959-28-4 MF: C₁₁H₁₈O₂ FW: 182 MSD LIB#: 1978

CN: 2H-pyran-2-one, 6-(3Z)-3-hexenyltetrahydro-

Synonyms: none

Source: Bedoukian Res. ex JJ Brophy



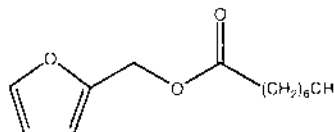
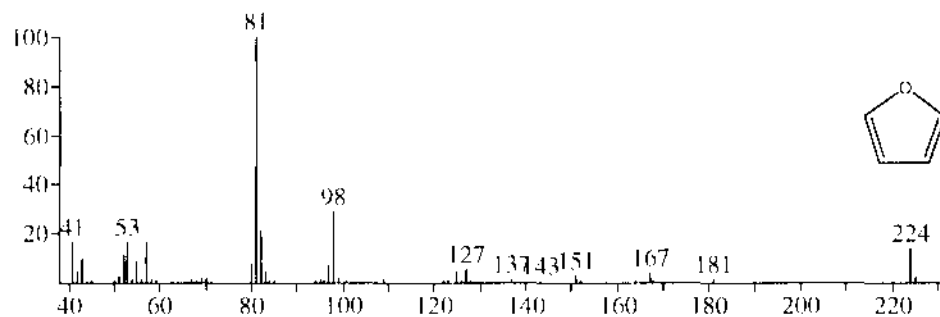
RT: 31.52 AE: 1566 KE: 1567 **Furfuryl octanoate**

CAS#: 39252-03-4 MF: C₁₃H₂₀O₃ FW: 224 MSD LIB#: 86

CN: octanoic acid, 2-furanylmethyl ester

Synonyms: none

Source: Aldrich Chem.



RT: 31.53 AI: 1566 KI: 1567 **Maaliol**

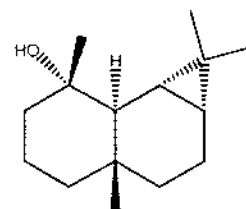
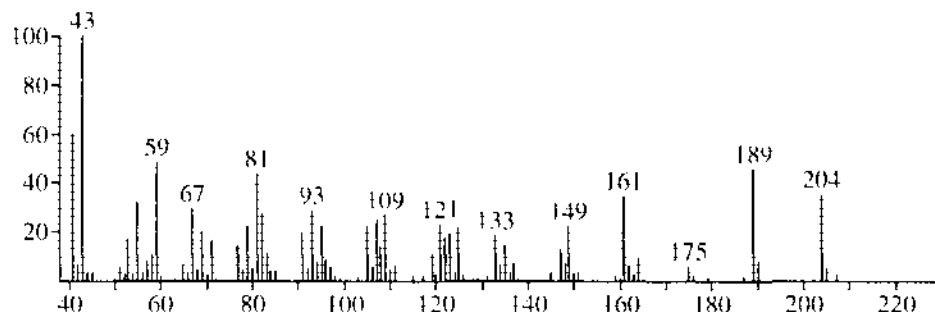
CAS#: 527-90-2 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1577

CN: 11H-cyclopropa(a)naphthalen-7-ol, decahydro-1,1,3a,7-tetramethyl-, (1aR, 3aS, 7S, 7aS, 7bR)-

Synonyms: none

Source: *Prostanthera staurophylla* oil ex Ian Southwell; 0.30% *Baccharis dracunculifolia*,

FFJ 11:15(1996)



RT: 31.55 AI: 1567 KI: 1568 **Tridecen-1-al <(2E)->**

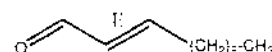
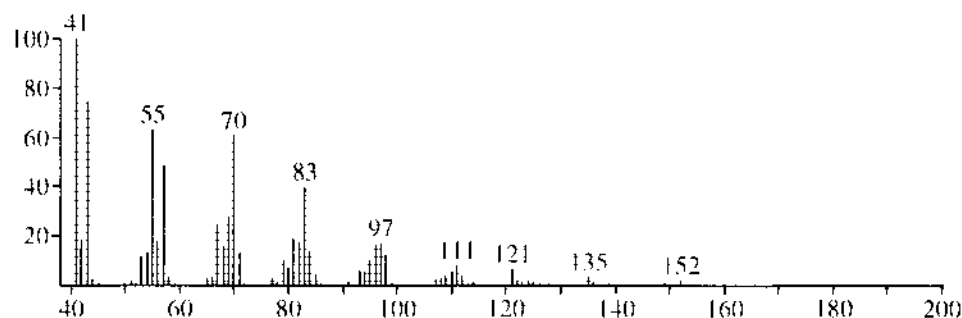
CAS#: 7069-41-2 MF: C₁₃H₂₄O FW: 196 MSD LIB#: 1514

CN: 2-tridecenal, (E)-

Synonyms: none

Source: Aldrich Chem. ex Art Tucker; 2.53% *Coriandrum sativum* (leaf),

J. Ag. Food Chem. 44:1824(1996); 2.00% *Coriandrum sativum* (plant)



RT: 31.56 AI: 1567 KI: 1568 **Palustrol**

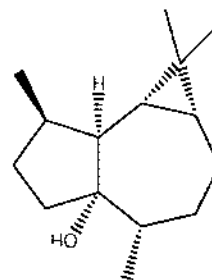
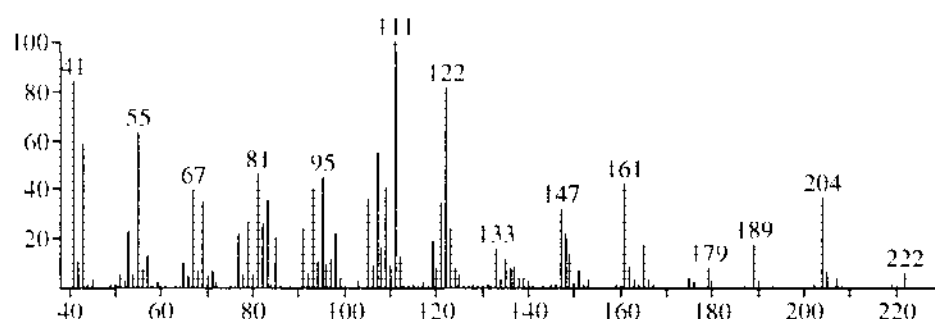
CAS#: 5986-49-2 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 4

CN: 4aH-cycloprop(e)azulen-4a-ol, decahydro-1,1,4,7-tetramethyl-, (1aR-(1aα,4β,4aβ,7α,7bβ,7ba))-

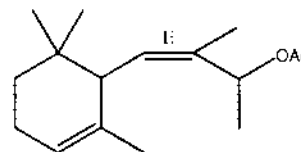
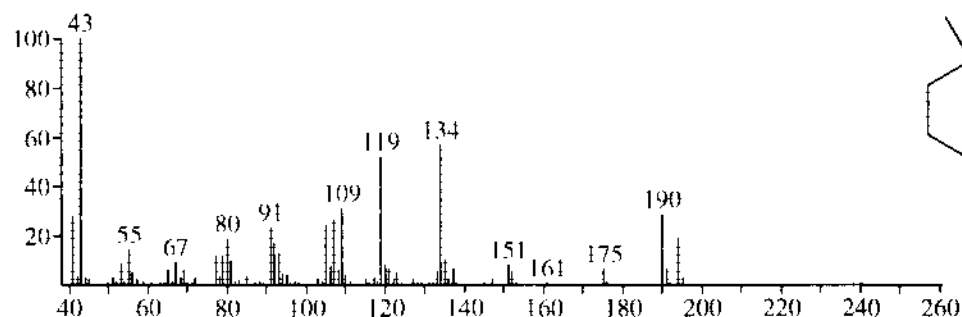
Synonyms: Palustrol (Ledum)

Source: *Lepechinia salviaefolia* oil ex E. Stahl-Biskup; 3.00% *Leptospermum javanicum*,

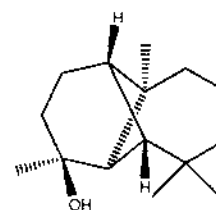
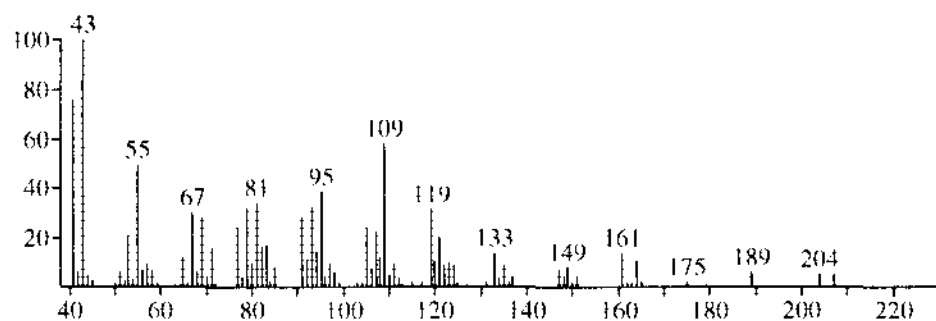
FFJ 10:255(1995); 1.02% *Eugenia banderensis* (leaf); 0.60% *Idiospermum australiense*



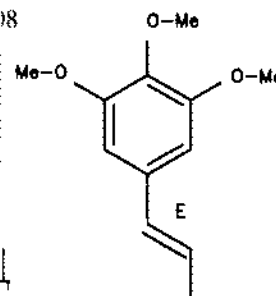
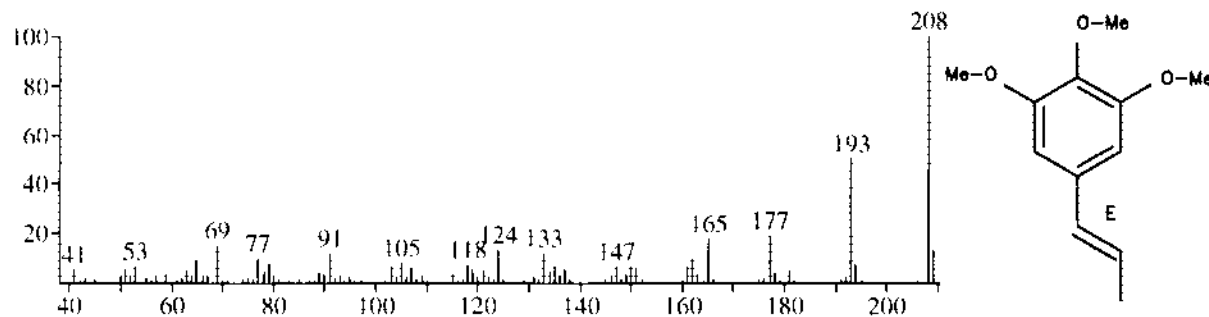
RT: 31.57 AI: 1567 KI: 1569 **Ionol acetate <(E)- α -isomethyl->**
 CAS#: 000-00-0 MF: C₁₆H₂₆O₂ FW: 250 MSD LIB#: 2111
 CN: 3-buten-2-ol, 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-, acetate, (E)-
 Synonyms: none
 Source: Bedoukian Res.



RT: 31.58 AI: 1567 KI: 1569 **Longipinanol**
 CAS#: 39703-23-6 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1035
 CN: tricyclo[5.4.0.0^{2,8}]undecan-9-ol, 2,6,6,9-tetramethyl-, stereoisomer
 Synonyms: trans-longipinanol
 Source: *Scapania undulata* oil ex Larry Cool



RT: 31.62 AI: 1568 KI: 1570 **Isoelemicin <(E)->**
 CAS#: 5273-85-8 MF: C₁₂H₁₆O₃ FW: 208 MSD LIB#: 615
 CN: benzene, 1,2,3-trimethoxy-5-(1-propenyl)-, (E)-
 Synonyms: none
 Source: *Calamus* oil ex Firmenich ex AF Thomas



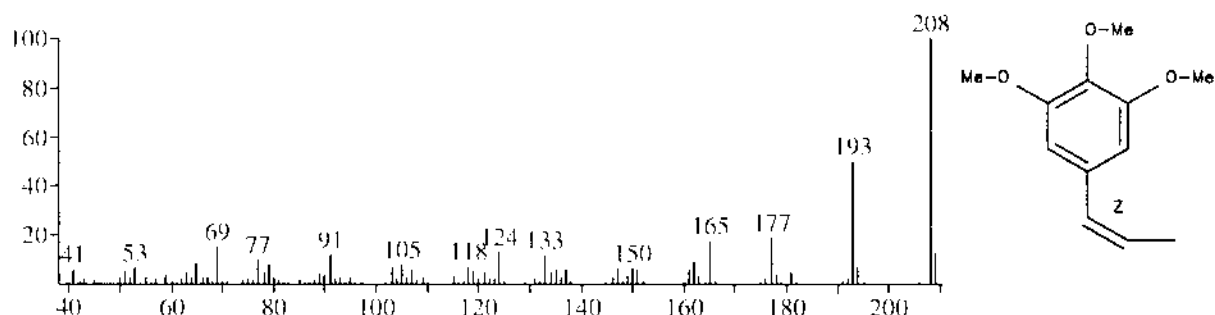
RT: 31.62 AI: 1568 KI: 1570 **Isoelemicin <(Z)->**

CAS#: 5273-84-7 MF: C₁₂H₁₆O₃ FW: 208 MSD LIB#: 350

CN: benzene, 1,2,3-trimethoxy-5-(1-propenyl)-, (Z)-

Synonyms: cis-isoelemicin

Source: *Calamus* oil ex Firmenich ex AF Thomas



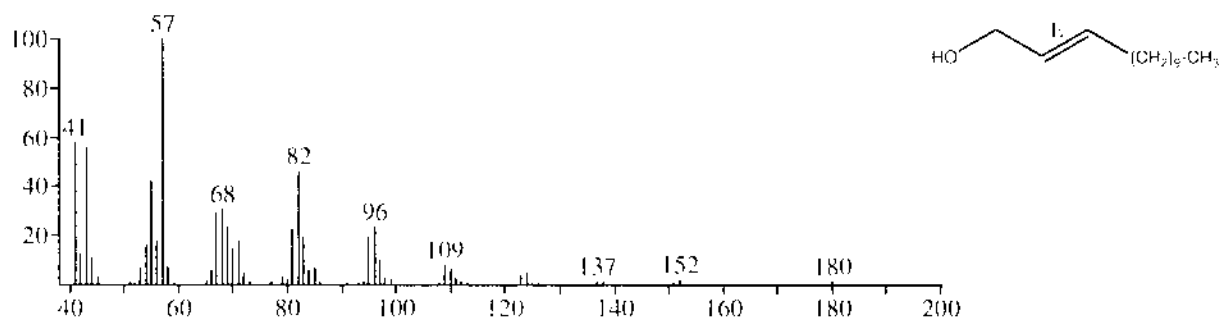
RT: 31.62 AI: 1568 KI: 1570 **Tridecenol <(2E)->**

CAS#: 74962-98-4 MF: C₁₃H₂₆O FW: 198 MSD LIB#: 2086

CN: 2-tridecen-1-ol, (2E)-

Synonyms: none

Source: Bedoukian Res.



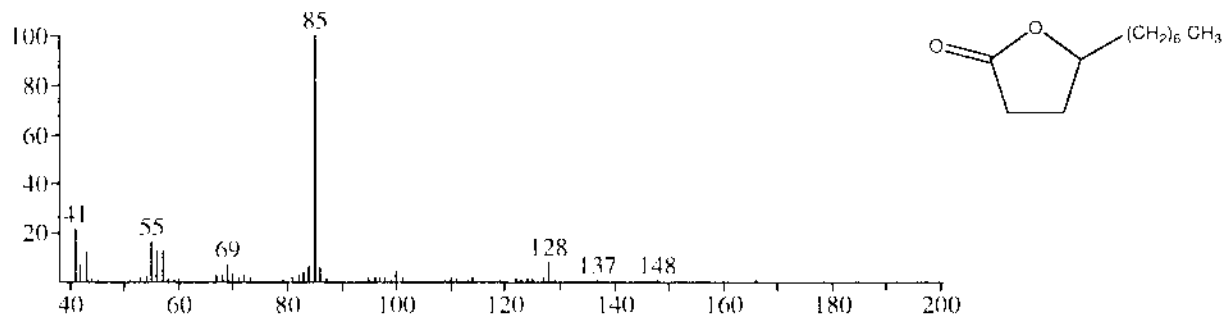
RT: 31.65 AI: 1569 KI: 1570 **Undecalactone <γ->**

CAS#: 104-67-6 MF: C₁₁H₂₀O₂ FW: 184 MSD LIB#: 1522

CN: 2(3H)-furanone, 5-heptyldihydro-

Synonyms: peach lactone; persicol

Source: ref. cpd. ex P. Weyerstahl; 0.24% *Narcissus tazetta*, Shitsuryo Bunseki 27:202R(1979)



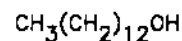
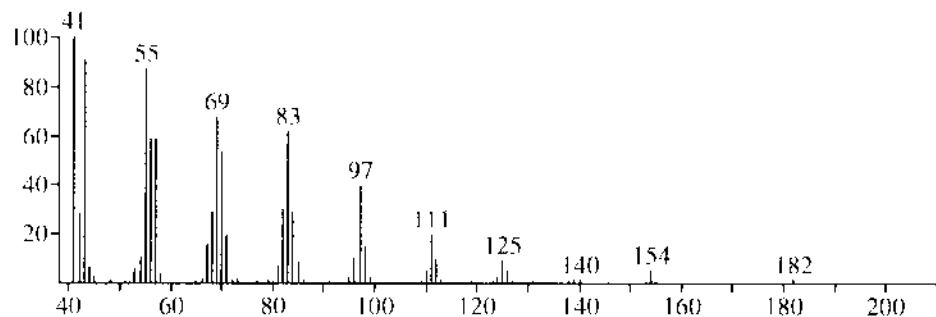
RT: 31.68 AE: 1570 KI: 1571 **Tridecanol <n->**

CAS#: 26248-42-0 MF: C₁₃H₂₈O FW: 200 MSD LIB#: 25

CN: tridecanol

Synonyms: none

Source: ref. cpd. ex E. von Rudloff: 1.12% *Rosa rugosa*, p. 57 in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong (1993); 0.40% *Angelica archangelica*; 0.10% *Narcissus poeticus*



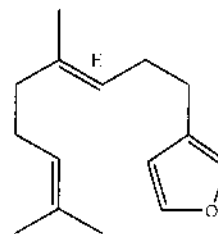
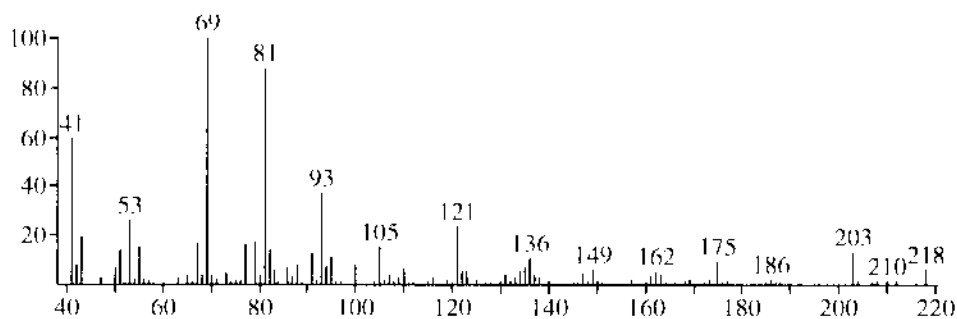
RT: 31.69 AE: 1570 KI: 1571 **Dendrolasin**

CAS#: 23262-34-2 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 1388

CN: furan, 3-(4,8 dimethyl-3,7-nonadienyl)-, (E)-

Synonyms: none

Source: Sandalwood oil ex Firmenich ex AF Thomas: 2.25% *Hedychium coronarium*, p. 102, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong (1993); 0.09% *Jasminum officinale*



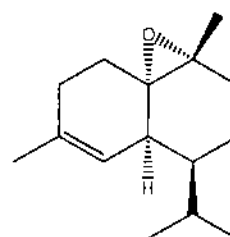
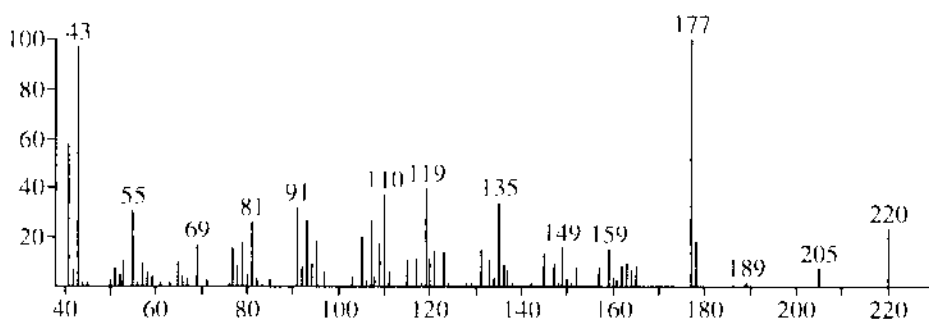
RT: 31.70 AE: 1570 KI: 1572 **Amorph-4-ene <1α,10α-epoxy->**

CAS#: 257293-86-0 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1714

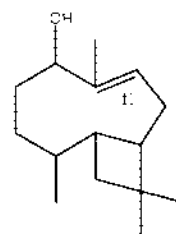
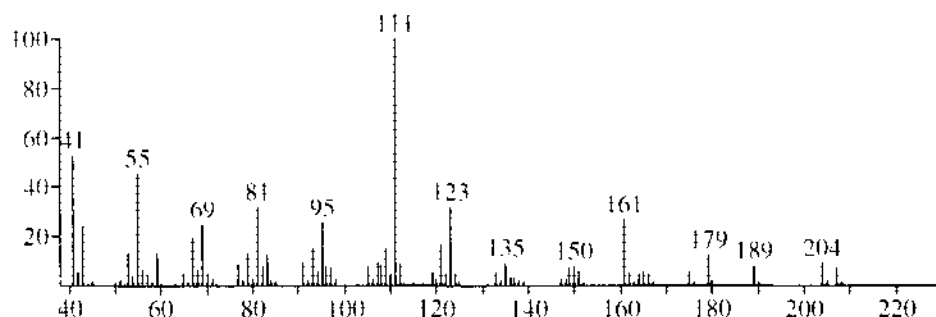
CN: 3H-naphth(1,8a-b)oxirene, 1a,2,4,4a,7,8-hexahydro-1a,6-dimethyl-4-(1-methylethyl)-, (1aR, 4S, 4aS, 8aS)-

Synonyms: none

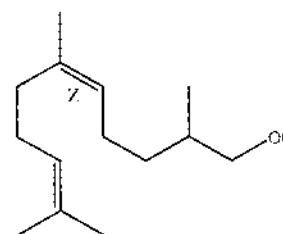
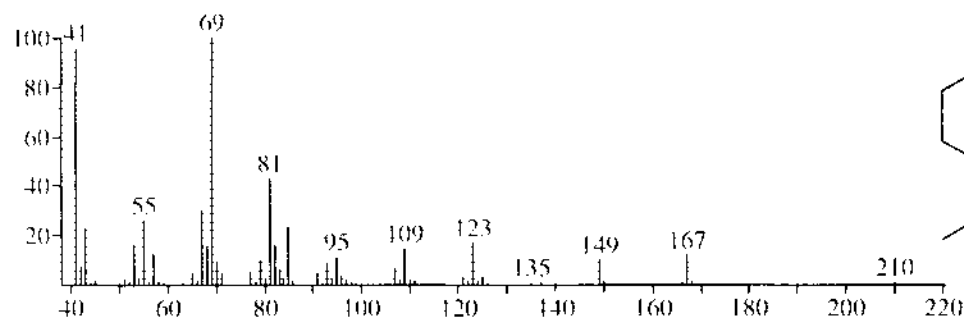
Source: *Aglaia odorata* ex P. Weyerstahl



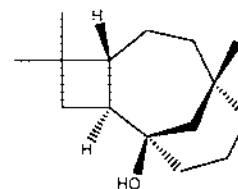
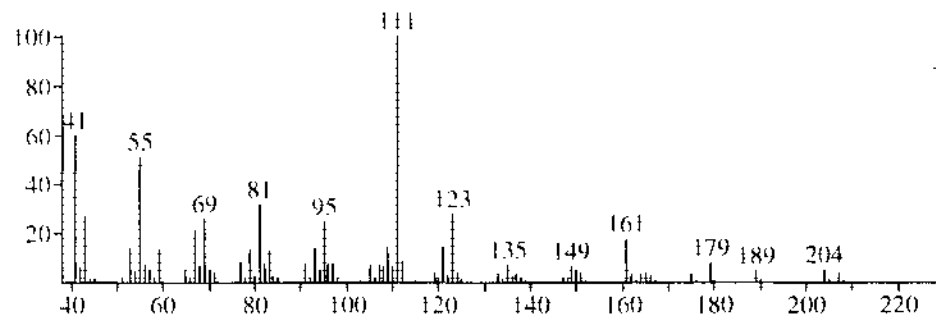
RT: 31.70 AI: 1570 KE: 1572 **Caryophyllenyl alcohol**
 CAS#: 000-00-0 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 385
 CN: not assigned
 Synonyms: none
 Source: Fritze Bros. ex E. von Rudloff



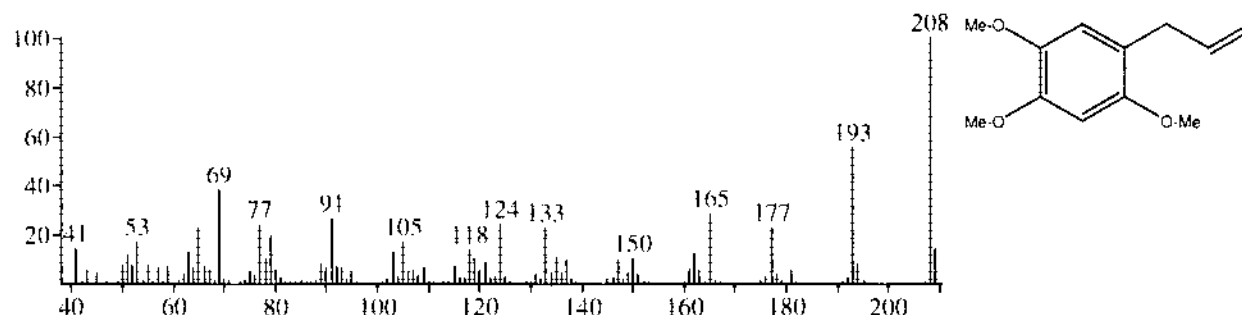
RT: 31.72 AI: 1571 KE: 1572 **Apofarnesol <(Z)-dihydro->**
 CAS#: 58001-87-9 MF: C₁₄H₂₆O FW: 210 MSD LIB#: 182
 CN: 5,9-undecadien-1-ol, 2,6,10-trimethyl-, (Z)-
 Synonyms: none
 Source: Apofarnesol, dihydro-, H&R ex Jian-Qin Cu



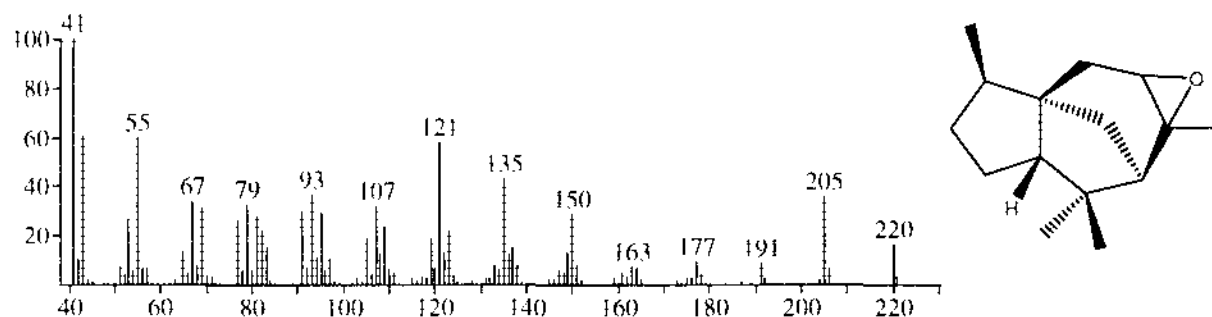
RT: 31.73 AI: 1571 KE: 1572 **Caryolan-8-ol**
 CAS#: 178737-45-6 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 380
 CN: tricyclo[6.3.1.0(2,5)]dodecan-8-ol, 1,4,4-trimethyl-, (1a,2β,5a,8,β)-
 Synonyms: none
 Source: ref. epd. ex Peter Weyerstahl



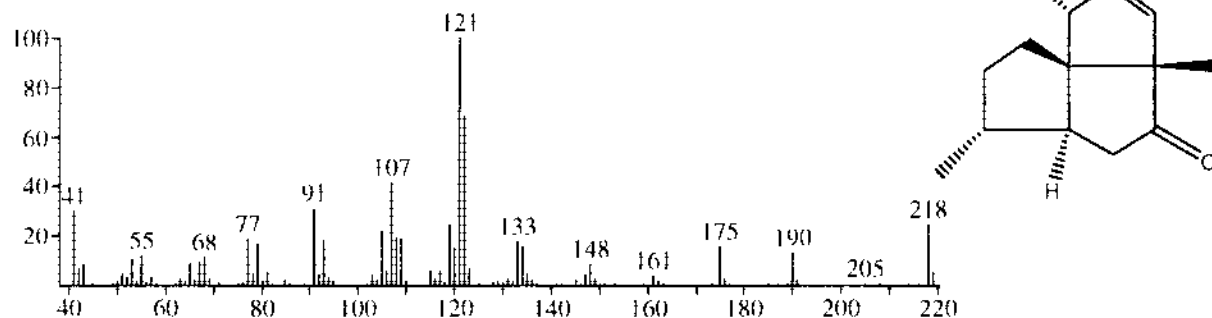
RT: 31.78 AE: 1572 KI: 1574 **Asarone <γ>**
 CAS#: 5353-15-1 MF: C₁₂H₁₆O₃ FW: 208 MSD LIB#: 485
 CN: benzene, 1,2,4-trimethoxy-5-(2-propenyl)-
 Synonyms: sekishon; euasarone
 Source: *Crowea angustifolia* ex JJ Brophy



RT: 31.84 AE: 1574 KI: 1575 **Cedrene epoxide <α>**
 CAS#: 29597-36-2 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 406
 CN: 2H-2a,7-methanoazulenot(5,6-b)oxirene, octahydro-3,6,6,7a-tetramethyl-
 Synonyms: 8.xi.-cedrane, 8,9-epoxide; α-epoxycedrene
 Source: ref. epd. ex P. Weyerstahl; 2.36% *Daucus carota*, Ind. Alim. Agric.,
 F. Perineau, et al., 108:357(1991); 0.70% *Eucalyptus pellita*; 0.60% *Eucalyptus amplifolia*



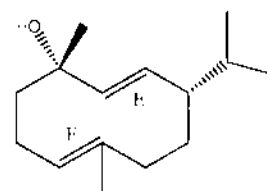
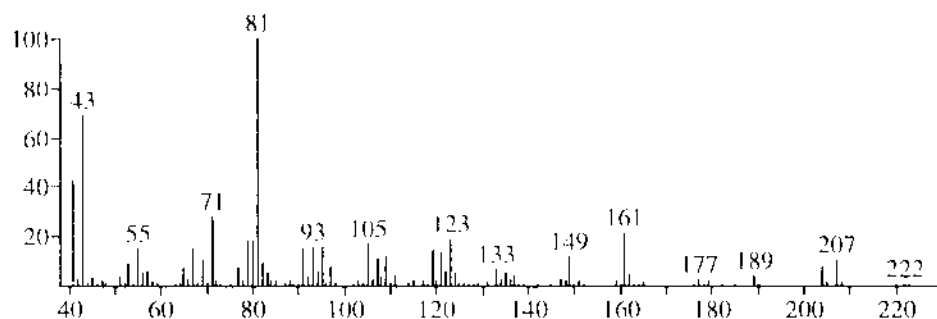
RT: 31.84 AE: 1574 KI: 1575 **Silphiperfol-5-en-3-one A**
 CAS#: 138752-21-3 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 210
 CN: Cyclopenta(c)pentalene-4(5H)-one, 1,3a,5a,6,7,8-hexahydro-1,2,3a,6-tetramethyl-,
 (1R-(1-α,3a,β,5aα,6α,8aR*))-
 Synonyms: none
 Source: *Artemisia lactinata* oil ex P. Weyerstahl



RT: 31.85 AI: 1574 KI: 1575 **Germacrene D-4-ol**CAS#: 74841-87-5 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 949

CN: 2,7-cyclodecadien-1-ol, 1,7-dimethyl-4-(1-methylethyl)-, (1S-(1R*,2E,4R*,7E))-

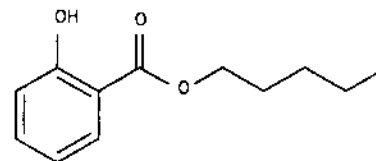
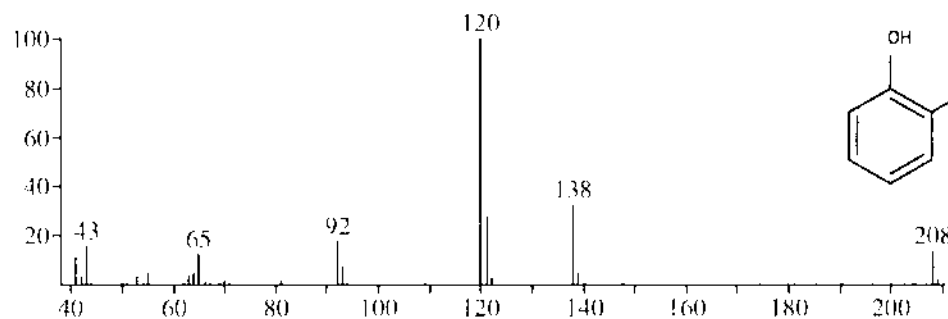
Synonyms: hydroxygermacra-1(10),5-diene <4β>

Source: *Juniperus squamata* oil ex P. Weyerstahl; 1.80% *Teucrium abutiloides*,
FFJ 8:277(1993); 1.60% *Daniellia oliveri*; 0.05% *Juniperus rigida*RT: 31.85 AI: 1574 KI: 1576 **Pentyl salicylate**CAS#: 2050-08-0 MF: C₁₂H₁₆O₃ FW: 208 MSD LIB#: 1253

CN: benzoic acid, 2-hydroxy-, pentyl ester

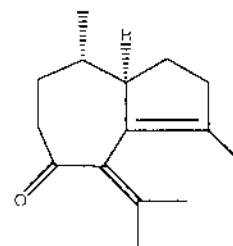
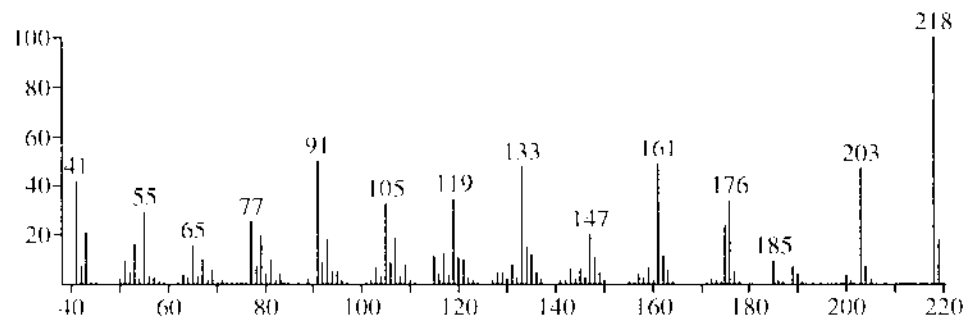
Synonyms: amyl salicylate

Source: Givaudan ex Art Tucker

RT: 31.86 AI: 1574 KI: 1575 **Zierone**CAS#: 6754-66-1 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 1847

CN: 5(1H)-azulenone, 2,4,6,7,8,8a-hexahydro-3,8-dimethyl-4-(1-methylethylidene)-, (8S,8aR)-

Synonyms: Elleryone

Source: *Melicope elleryana* oil ex JJ Brophy

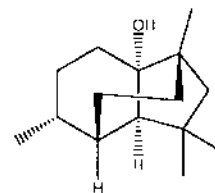
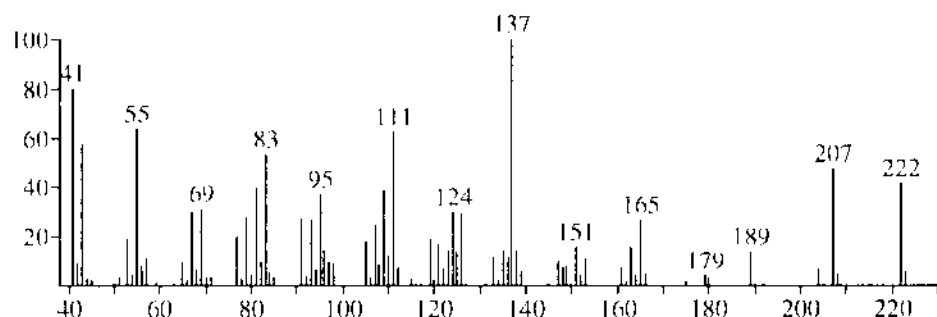
RT: 31.91 AI: 1575 KI: 1577 **Prenopsan-8-ol**

CAS#: 210482-77-2 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 646

CN: 1,4-ethano-1H-inden-7a(2H)-ol, hexahydro-1,3,3,5-tetramethyl-, (1S,3aR,4S,5R,7aS)-

Synonyms: none

Source: *Echinopos giganteus* oil ex P. Weyerstahl



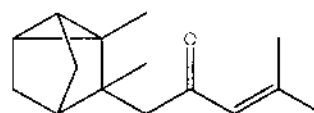
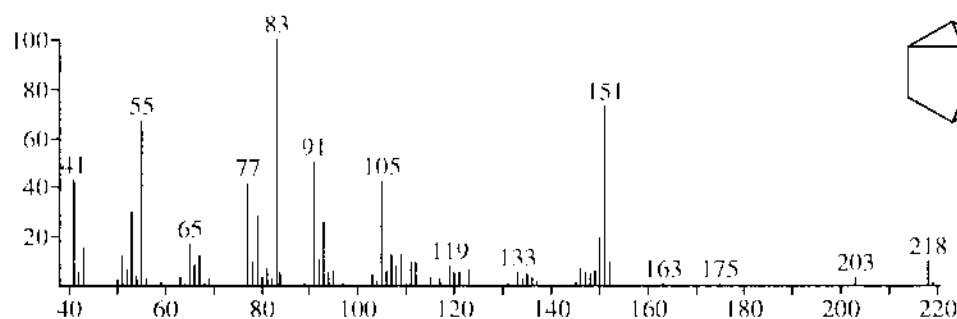
RT: 31.92 AI: 1576 KI: 1577 **Santalenone**

CAS#: 137894-69-0 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 1724

CN: 3-penten-2-one, 1-(2,3-dimethyltricyclo(2.2.1.0^{2,6})hept-3-yl)-4-methyl-

Synonyms: α-santalone

Source: ref. cpd. ex Guy Collin



RT: 31.96 AI: 1577 KI: 1578 **Spathulenol**

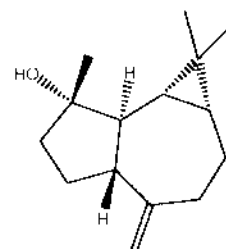
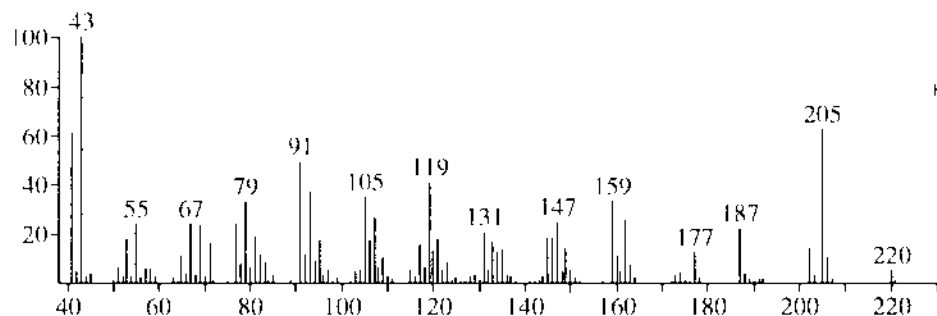
CAS#: 6750-60-3 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 998

CN: 1H-cycloprop(e)azulen-7-ol, decahydro-1,1,7-trimethyl-4-methylene-,

(1aR-(1aα,4aα,7β,7aβ,7bα))-

Synonyms: espatulenol

Source: *Leptospermum longifolium* oil ex JJ Brophy



RT: 31.99 AI: 1577 KI: 1579 **Sesquisabinene hydrate <trans-> (IPP vs. OH)**

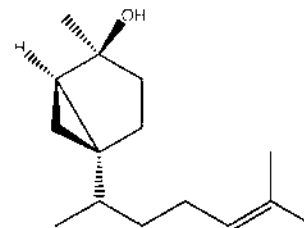
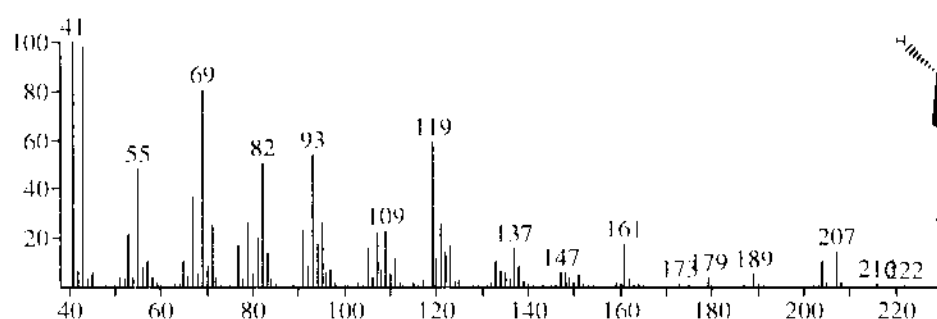
CAS#: 145512-84-1 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 259

CN: bicyclo(3.1.0)hexan-2-ol, 5-(1,5-dimethyl-4-hexenyl)-2-methyl-

Synonyms: none

Source: Ayon oil ex P. Weyerstahl; 2.00% *Ayodendron barbeyana*, FIJ 4:93(1989);

0.35% *Phoebe porosa*; 0.23% *Zingiber officinale*



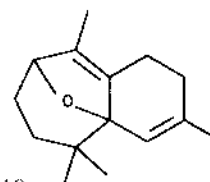
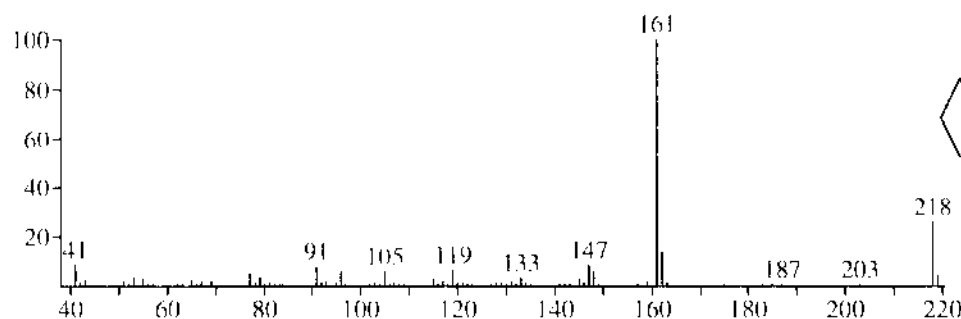
RT: 32.01 AI: 1578 KI: 1579 **Himachalene epoxide**

CAS#: 64825-84-9 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 243

CN: 4a,8-epoxy-4aH-benzocycloheptene, 1,2,5,6,7,8-hexahydro-3,5,5,9-tetramethyl-, (4aS)-

Synonyms: oxidohimachalene

Source: *Artemisia vestita* oil ex P. Weyerstahl



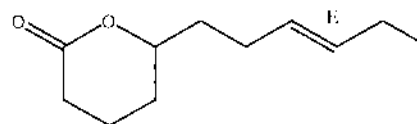
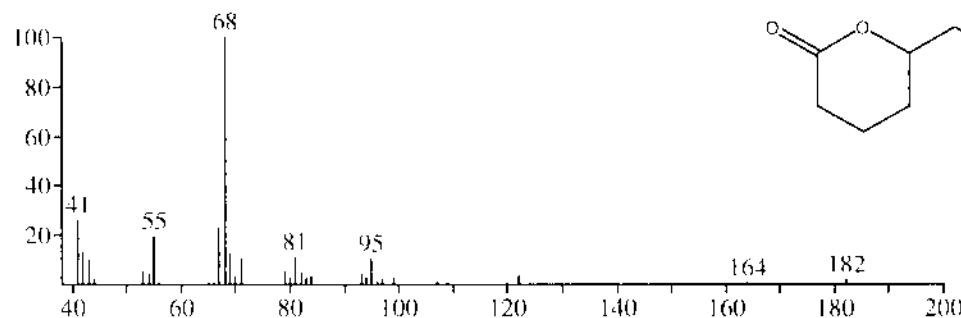
RT: 32.02 AI: 1578 KI: 1579 **Jasmolactone, extra C <(E)->**

CAS#: 259210-34-9 MF: C₁₁H₁₈O₂ FW: 182 MSD LIB#: 1979

CN: 2H-pyran-2-one, 6-(3E)-3-hexenyltetrahydro-

Synonyms: none

Source: Bedoukian Res. ex H Brophy



RT: 32.05 AI: 1579 KI: 1580 **Hexyl benzoate <n->**

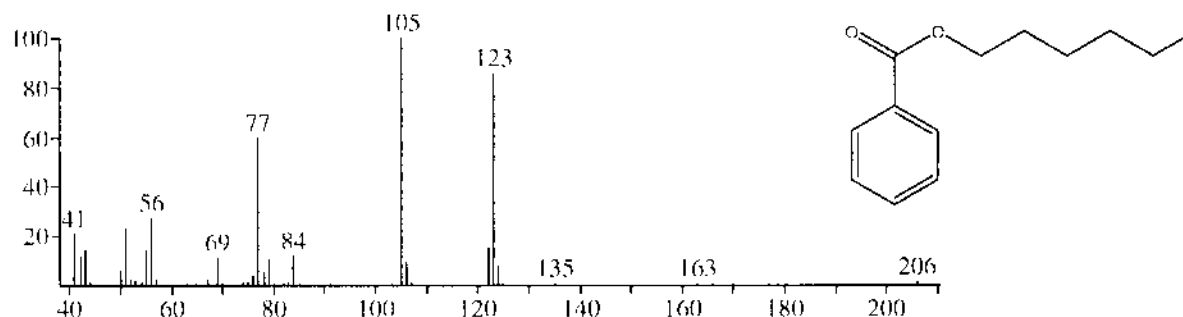
CAS#: 6789-88-4 ME: C13 H18 O2 FW: 206 MSD LIB#: 277

CN: benzoic acid, hexyl ester

Synonyms: none

Source: ref. cpd. ex H. DePooter; 1.80% *Diospyros discolor*, JEOR 4:287(1992);

0.48% *Gardenia jasminoides* (absolute); 0.22% *Syringa vulgaris*



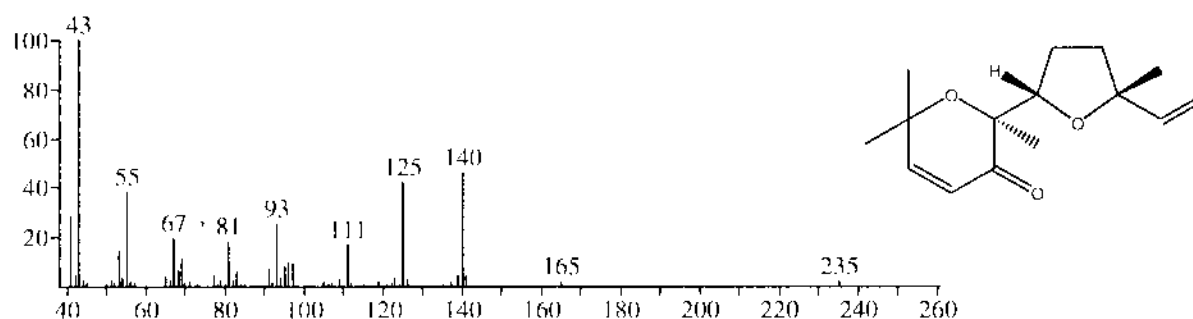
RT: 32.12 AI: 1581 KI: 1582 **Artedouglasia oxide B**

CAS#: 115403-97-9 ME: C15 H22 O3 FW: 250 MSD LIB#: 219

CN: 2H-pyran-3(6H)-one, 2 (5 ethenyltetrahydro-5-methyl-2-furanyl)- 2,6,6-trimethyl-, (2S-(2α(R*),5α)-

Synonyms: none

Source: *Artemisia persica* oil ex P. Weyerstahl; 0.42% *Artemisia persica*, JEOR 4:1(1992)



RT: 32.12 AI: 1581 KI: 1582 **Hexyl octanoate**

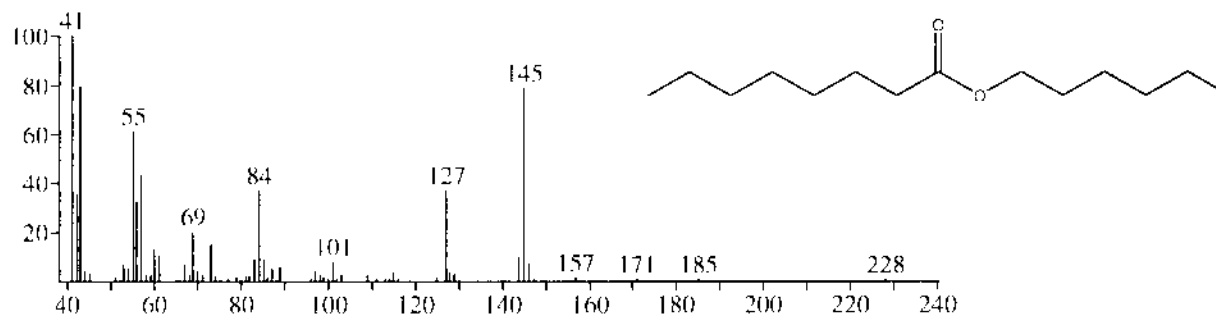
CAS#: 1117-55-1 ME: C14 H28 O2 FW: 228 MSD LIB#: 1656

CN: octanoic acid, hexyl ester

Synonyms: hexyl caprylate

Source: Aldrich Chem.; 0.20% *Boswellia carterii*, in: p. 382, in: The essential oil of *Olibanum*,

Wahab, et al., Planta Med.(1987)



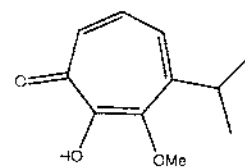
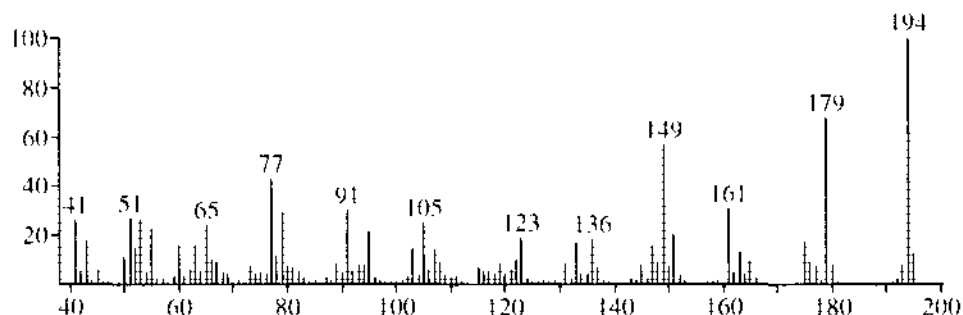
RT: 32.14 AI: 1581 KI: 1582 **Pygmaein**

CAS#: 16749-07-8 ME: C₁₁H₁₄O₃ FW: 194 MSD LIB#: 1889

CN: 2,4,6-cycloheptatrien-1-one, 2-hydroxy-4-isopropyl-3-methoxy-

Synonyms: none

Source: ref. cpd. ex *Cupressus pygmaea* wood oil ex E. Zavarin and Larry Cool



RT: 32.16 AI: 1582 KI: 1583 **Caryophyllene oxide**

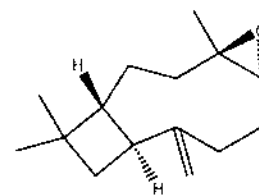
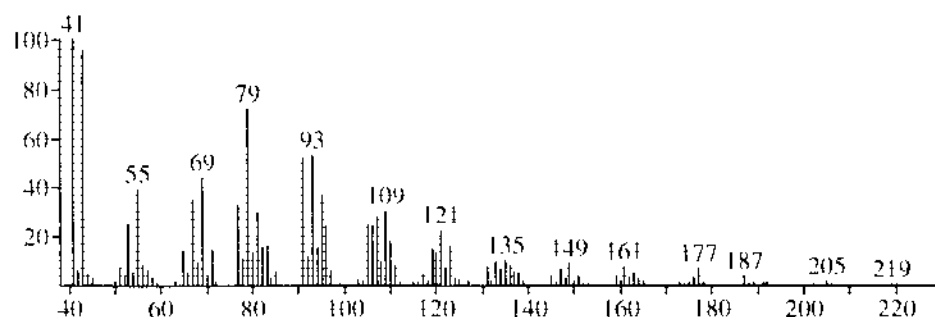
CAS#: 1139-30-6 ME: C₁₅H₂₄O FW: 220 MSD LIB#: 834

CN: 5-oxatricyclo(8.2.0.0^{4,6})dodecane, 4,12,12-trimethyl-9-methylene-, (1R-(1R*,4R*,6R*,10S*))-

Synonyms: β-caryophyllene epoxide; epoxycaryophyllene

Source: *Hymenaea* oil ex Jean Langenheim; 21.40% *Artemisia velutiorum*,

FFJ 10:25(1995); 19.35% *Nepeta cataria*; 18.20% *Artemisia campestris*



RT: 32.17 AI: 1582 KI: 1583 **Turnerol <ar->**

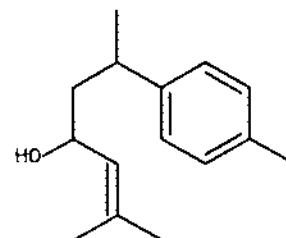
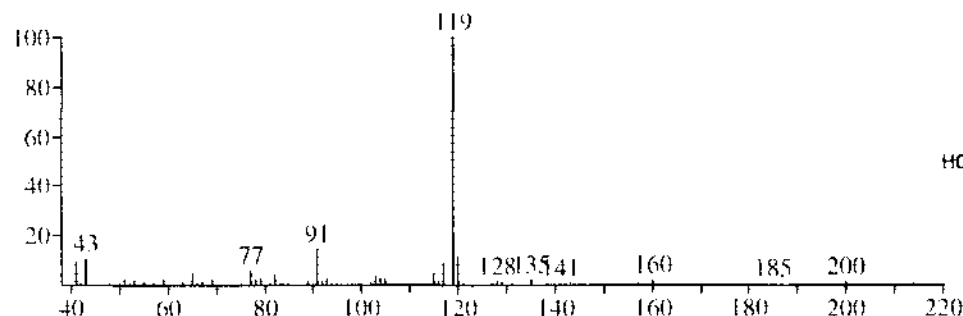
CAS#: 38142-57-3 ME: C₁₅H₂₂O FW: 218 MSD LIB#: 524

CN: benzenepropanol, γ,4-dimethyl-α-(2-methyl-1-propenyl)-

Synonyms: none

Source: *Curcuma domestica* oil ex JH Zwaving, Netherlands; 1.50% *Curcuma aromatica*,

FFJ 7:19(1992); 1.20% *Curcuma xanthorrhiza*; 0.90% *Curcuma longa*



RT: 32.18 AI: 1582 KI: 1583 **Neryl isovalerate**

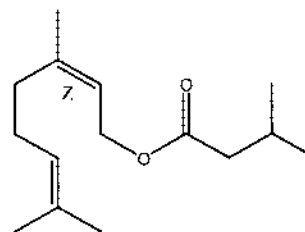
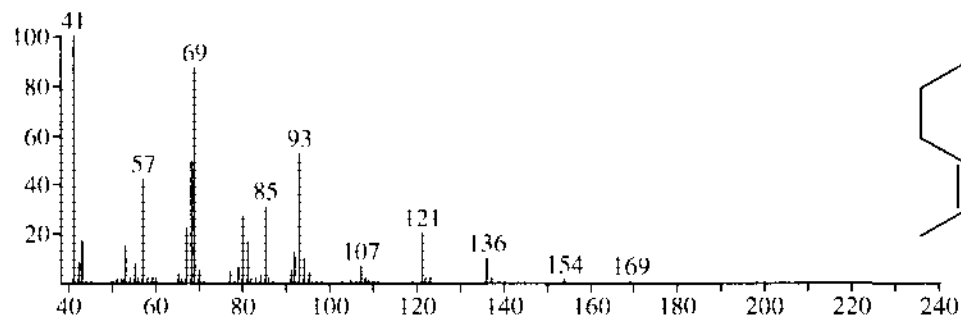
CAS#: 3915-83-1 MF: C₁₅H₂₆O₂ FW: 238 MSD LIB#: 1148

CN: butanoic acid, 3-methyl-, 3,7-dimethyl-2,6-octadienyl ester, (Z)-

Synonyms: neryl 3-methylbutanoate

Source: Bedoukian Res. ex Art Tucker; 2.10% *Artemisia absinthum*,

J. HRC & CC 5:182(1982)



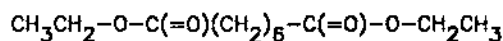
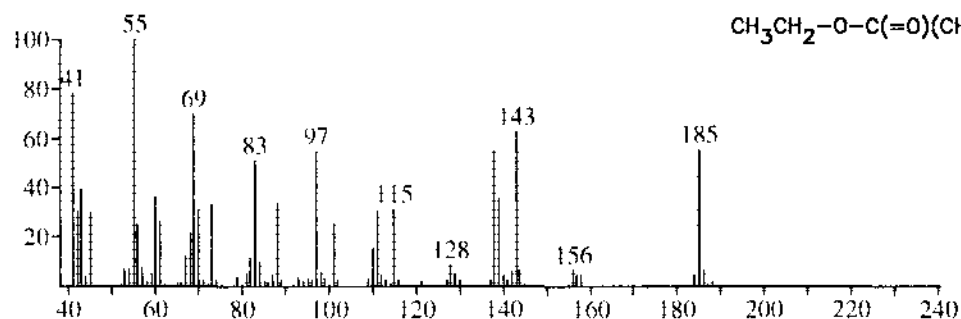
RT: 32.25 AI: 1584 KI: 1585 **Octanedioic acid, diethyl ester**

CAS#: 2050-23-9 MF: C₁₂H₂₂O₄ FW: 230 MSD LIB#: 1202

CN: octanedioic acid, diethyl ester

Synonyms: diethyl suberate; diethyl octanedioate

Source: Pfaltz & Bauer ex Art Tucker



RT: 32.25 AI: 1584 KI: 1585 **Phenyl ethyl tiglate <2->**

CAS#: 55719-85-2 MF: C₁₃H₁₆O₂ FW: 204 MSD LIB#: 1281

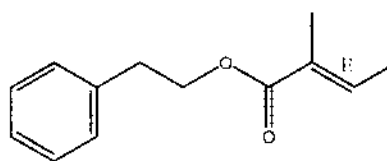
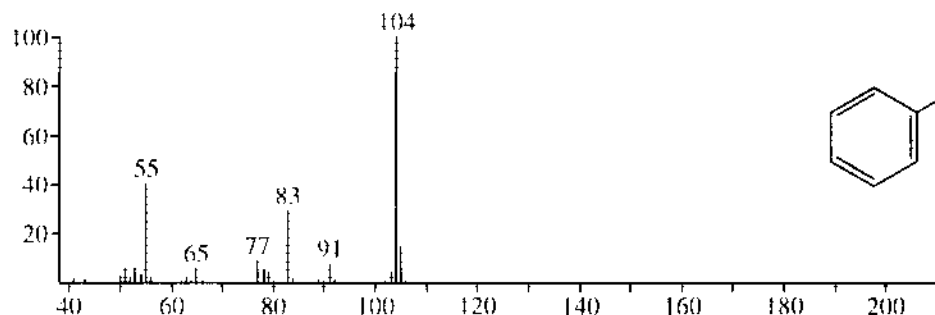
CN: 2-butenic acid, 2-methyl-, 2-phenylethyl ester, (E)-

Synonyms: phenylethyl tiglate, β-

Source: Aldrich Chem.; 2.76% *Pelargonium graveolens* (China, Yunnan),

Acta Pharm. Sin. 24:366(1989); 2.25% *Pelargonium graveolens* (India);

1.61% *Pelargonium graveolens* (China, Chengdu)



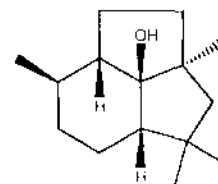
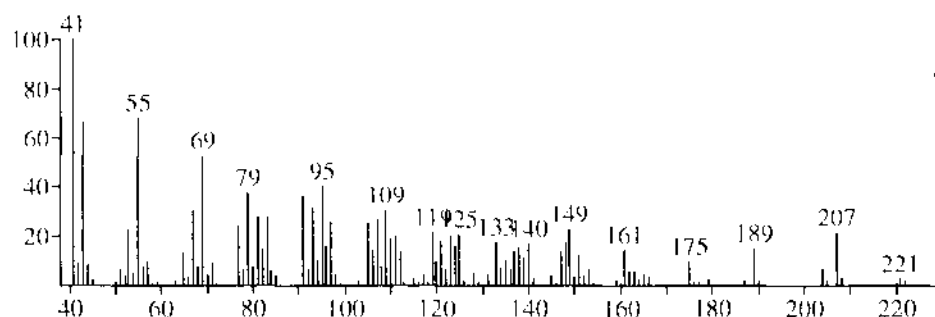
RT: 32.30 AI: 1585 KI: 1586 **Presilphiperfolan-8-ol**

CAS#: 80931-08-4 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 647

CN: 7bH-cyclopent(c)dinden-7b-ol, decahydro-1,1,2a,5-tetramethyl-, (2aS,4aS,5R,7aS,7bR)-

Synonyms: presilphiperfolanol

Source: *Echinopos giganteus* oil ex P. Weyerstahl



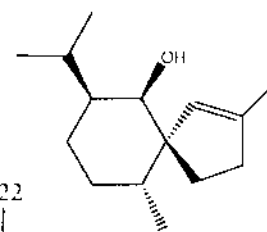
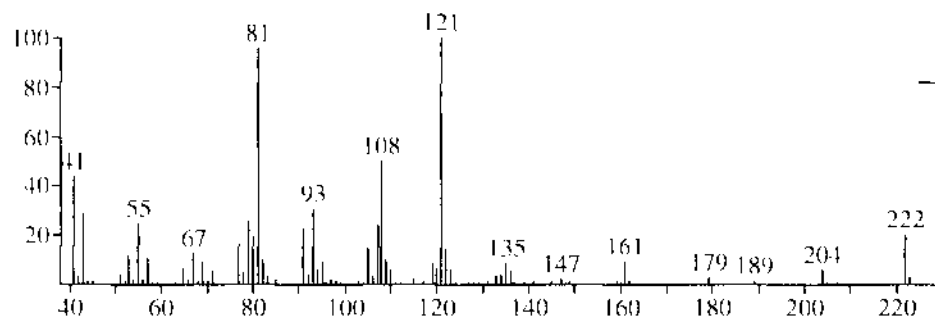
RT: 32.33 AI: 1586 KI: 1587 **Gleenol**

CAS#: 72203-99-7 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 926

CN: spiro(4.5)dec-1-en-6-ol, 2,10-dimethyl-7-(1-methylethyl)-, (5 α ,6 β ,7 β ,10 α)-

Synonyms: none

Source: *Juniperus oxycedrus* wood oil ex AF Barrero



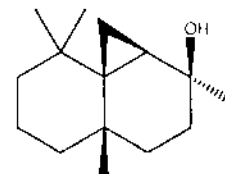
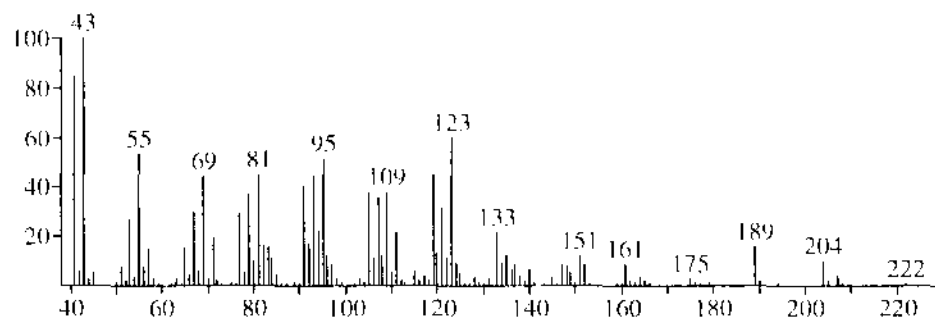
RT: 32.34 AI: 1586 KI: 1587 **Thujopsan-2- α -ol**

CAS#: 78392-83-3 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 497

CN: cyclopropa(d)naphthalene-2-ol, decahydro-2,4a,8,8-tetramethyl-, (1aR-(1 α ,2 β ,4 α ,8 α S*))-

Synonyms: none

Source: *Cryptomeria japonica* leaves, hexane extract ex S Nagahama, Japan



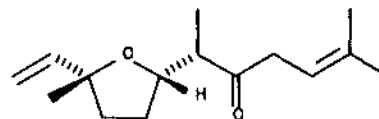
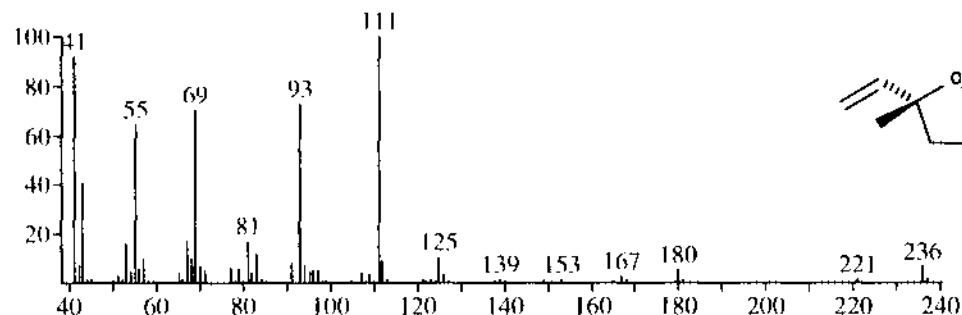
RT: 32.37 AI: 1587 KI: 1587 **Davanone**

CAS#: 20482-11-5 MF: C₁₅H₂₄O₂ FW: 236 MSD LIB#: 193

CN: 5-hepten-3-one, 2-(5-ethenyltetrahydro-5-methyl-2-furanyl)-6-methyl-(2S-(2α(R*),5α.))-

Synonyms: none

Source: Armoise a davanone ex Guy Collin



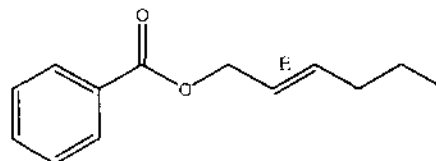
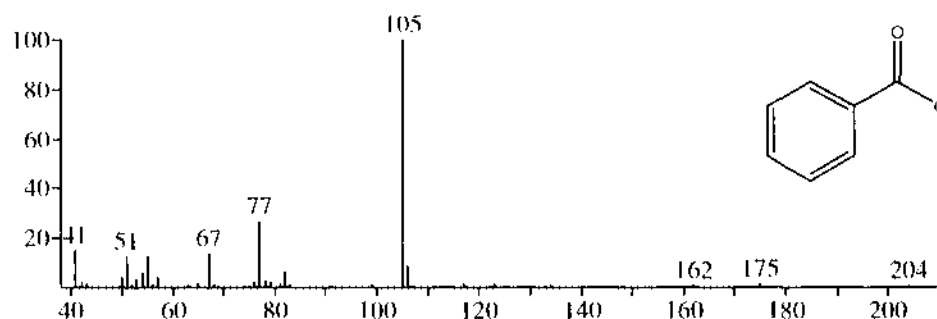
RT: 32.37 AI: 1587 KI: 1587 **Hexenyl benzoate <(2E)->**

CAS#: 76841-70-8 MF: C₁₃H₁₆O₂ FW: 204 MSD LIB#: 280

CN: 2-hexen-1-ol, benzoate, (E)-

Synonyms: trans-2-hexenyl benzoate

Source: ref. cpd. ex H. DePooter; 0.50% *Sideritis condensata*, FFJ 11:315(1996)



RT: 32.44 AI: 1588 KI: 1589 **Hexadecene <1->**

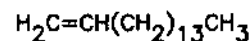
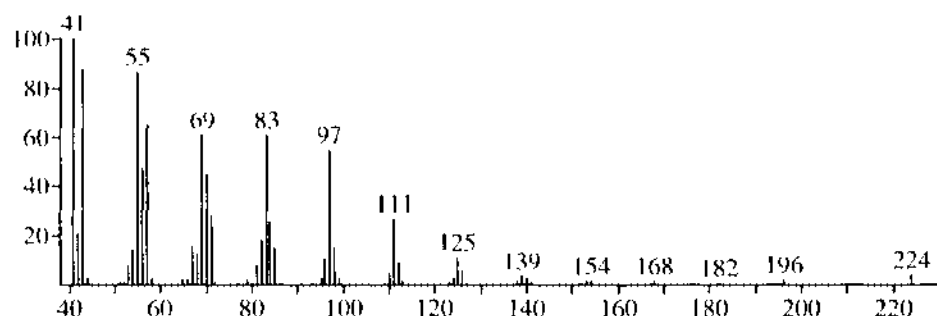
CAS#: 629-73-2 MF: C₁₆H₃₂ FW: 224 MSD LIB#: 24

CN: hexadecene (1-)

Synonyms: cetene

Source: olefins mix, Aldrich and Sigma Chem.; 12.90% *Viola odorata*, Phytochem. 31:571(1992);

1.29% *Alpinia conchigera*; 1.03% *Zingiber officinale* (flower)



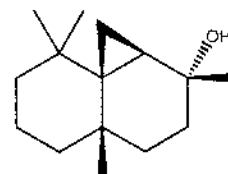
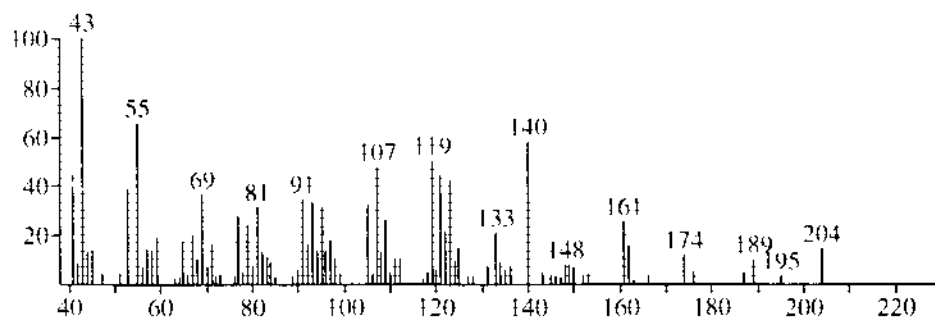
RT: 32.44 AI: 1588 KI: 1589 **Thujopsan-2- β -ol**

CAS#: 150737-93-2 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 498

CN: cyclopropa[*d*]naphthalen-2-ol, decahydro-2,4a,8,8-tetramethyl-, (1*a*R-(1*a*,2*a*,4*a* β ,8*a*S*))-

Synonyms: none

Source: *Cryptomeria japonica* (Sugi), leaves, hexane ext. ex S Nagahama, Japan



RT: 32.45 AI: 1589 KI: 1589 **Allo-cedrol**

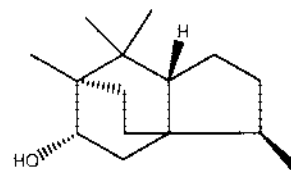
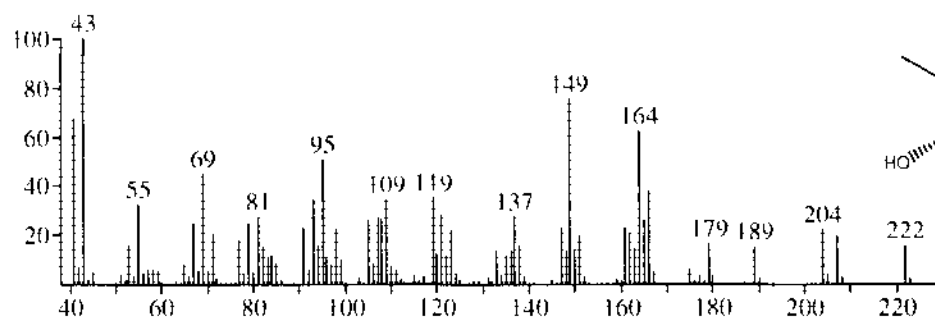
CAS#: 50657-30-2 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1852

CN: 3a,6-ethano-3aH-inden-5-ol,octahydro-3,6,7,7-tetramethyl-,

(3*R*,3*a**R*,5*S*,6*R*,7*a**R*)-

Synonyms: none

Source: *Juniperus chinensis* wood oil ex RP Adams #9736



RT: 32.45 AI: 1589 KI: 1589 **Allo-hedycaryol**

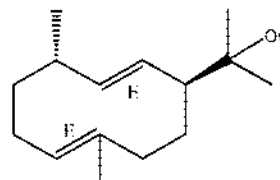
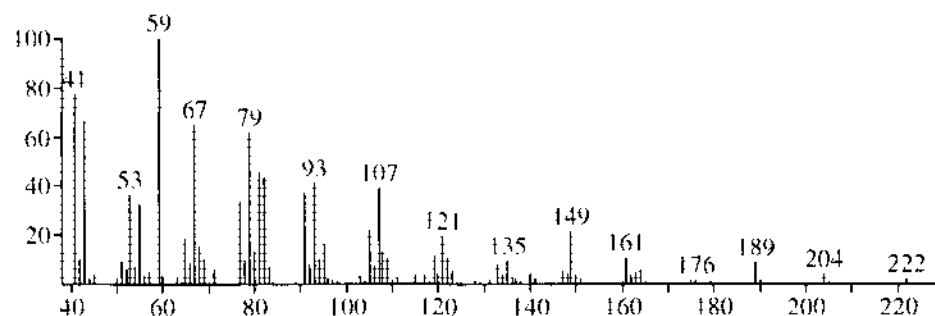
CAS#: 106972-93-4 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1856

CN: 2,7-cyclodecadiene-1-methanol, $\alpha,\alpha,4,8$ -tetramethyl-,

(1*S*,2*E*,4*S*,7*E*)-

Synonyms: none

Source: *Ferula arrigonii* ex Joseph Casanova



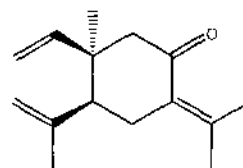
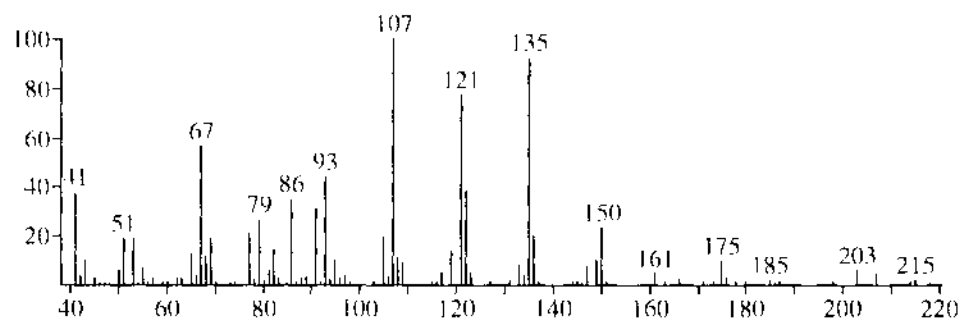
RT: 32.45 AI: 1589 KI: 1589 **Elemenone <cis-β> (impure)**

CAS#: 290305-38-3 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 650

CN: cyclohexanone, 5-ethenyl-5-methyl-4-(1-methylethenyl)-2-(1-methylethylidene)-, cis-

Synonyms: none

Source: ref. cpd. ex Robert Doss, USDA; 1.20% *Curcuma aromatica*, JEOR 8:633(1996)



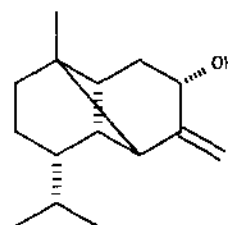
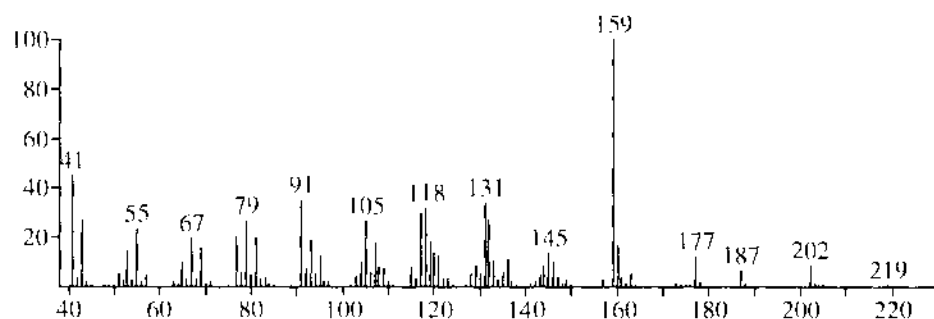
RT: 32.49 AI: 1590 KI: 1590 **Copaen-4-α-ol <β>**

CAS#: 126060-41-1 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1228

CN: tricyclo(4.4.0.0^{2,7})decan-4-ol, 1-methyl-3-methylene-8-(1-methylethyl)-, stereoisomer

Synonyms: none

Source: *Otacanthus coeruleus* ex H. DePooter



RT: 32.50 AI: 1590 KI: 1590 **Diethyl phthalate (plasticizer contaminant!)**

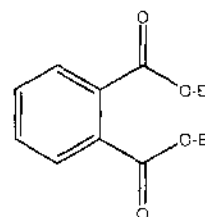
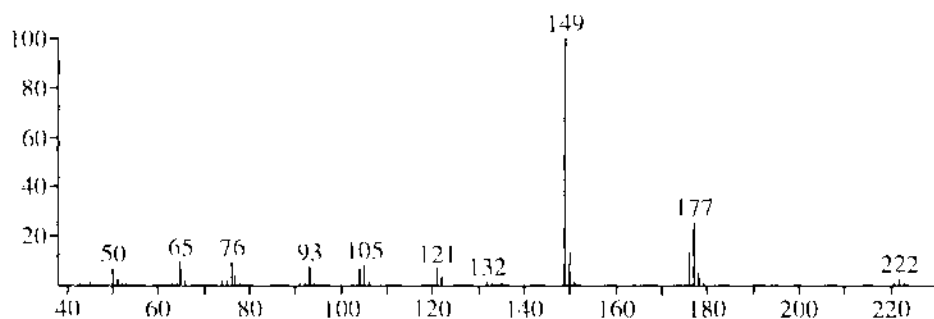
CAS#: 84-66-2 MF: C₁₂H₁₄O₄ FW: 222 MSD LIB#: 273

CN: 1,2-benzenedicarboxylic acid, diethyl ester

Synonyms: neantine; phthalol; solvanol; anozol

Source: ref. cpd. J. P. Vidal; 0.30% *Boldea fragrans*, Parf. Kosm. 55:225(1975);

0.12% *Spartium junceum* (absolute)



RT: 32.50 AI: 1590 KI: 1590 **Globulol**

CAS#: 51371-47-2 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1867

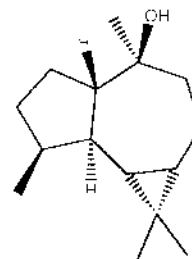
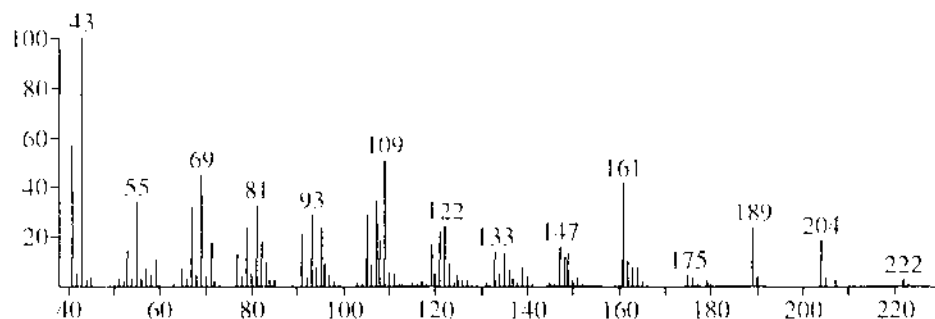
CN: 1H-cycloprop(e)azulen-4-ol, decahydro-1,1,4,7-tetramethyl-, (1a α ,4a,4aa,7a,7a β ,7ba)-

Synonyms: none

Source: *Bazzania trilobata* ex W. Koenig; *Leptospermum longifolium*;

16.90% *Salvia canariensis*, FFI 9:201(1994); 14.00% *Baccharis dracunculifolia*;

11.10% *Guarea cedrata* (bark)



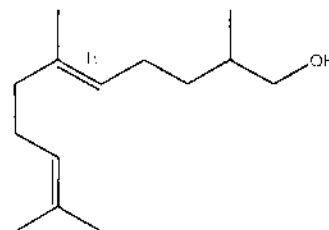
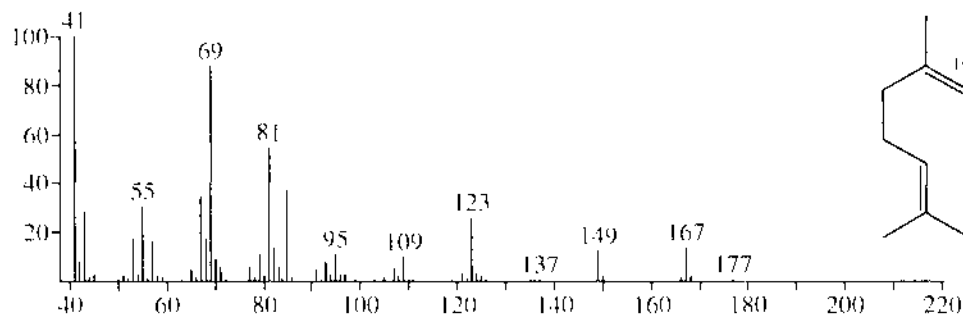
RT: 32.52 AI: 1590 KI: 1591 **Apofarnesol <(E)-dihydro->**

CAS#: 127516-27-2 MF: C₁₄H₂₆O FW: 210 MSD LIB#: 183

CN: 5,9-undecadien-1-ol, 2,6,10-trimethyl-, (R-(E))-

Synonyms: none

Source: Apofarnesol, dihydro-, H&R ex Jian-Qin Cu



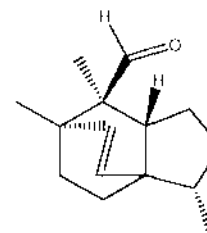
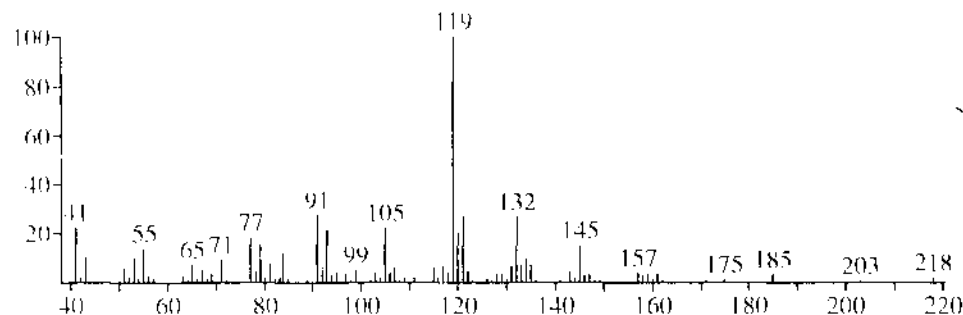
RT: 32.58 AI: 1592 KI: 1592 **Helifolen-12-al A <syn-anti-anti>**

CAS#: 235095-61-1 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 977

CN: 3a,6-ethano-3aH-indene-7-carboxaldehyde, 1,2,3,6,7,7a-hexahydro-3,6,7-trimethyl-, (3R,3aS,6S,7R,7aS)

Synonyms: khusien-12 al

Source: *Lantana camara* oil ex P. Weyerstahl



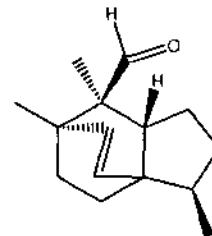
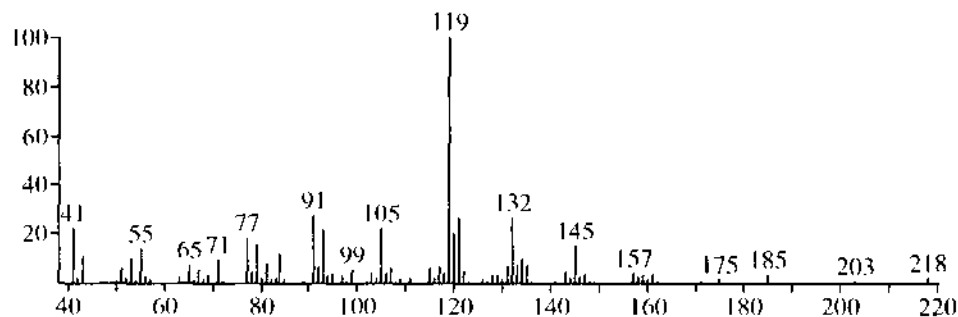
RT: 32.58 AI: 1592 KI: 1592 **Helifolen-12-al B <anti-anti-anti>**

CAS#: 235095-63-3 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 978

CN: 3a,6-ethano-3aH-indene-7-carboxaldehyde, 1,2,3,6,7,7a-hexahydro-3,6,7-trimethyl-, (3R,3aR,6R,7S,7aR)-

Synonyms: none

Source: *Lantana camara* oil ex P. Weyerstahl



RT: 32.58 AI: 1592 KI: 1592 **Viridiflorol**

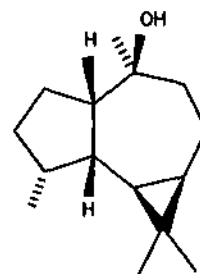
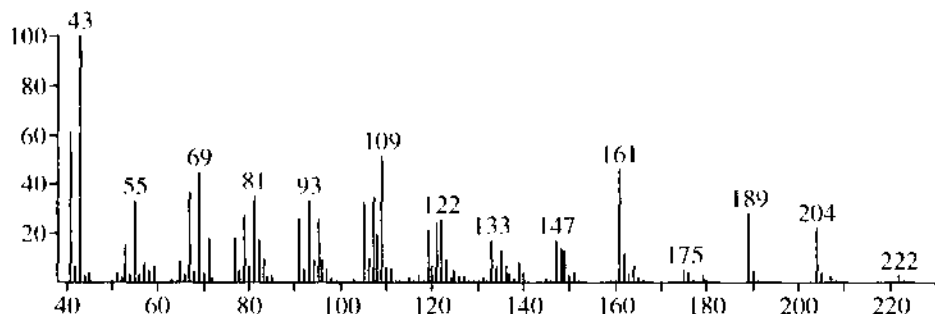
CAS#: 552-02-3 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 5

CN: 1H-cycloprop(c)azulen-4-ol, decahydro-3,1,4,7-tetramethyl-, (1aR-(1aα,4β,4aβ,7a,7bβ,7ba))-

Synonyms: none

Source: *Acacia spirorbis* oil ex JJ Brophy; 47.92% *Melaleuca quinquenervia*,

JHOR 8:67(1996); 15.17% *Boswellia frereana*; 10.92% *Salvia officinalis*



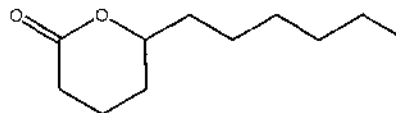
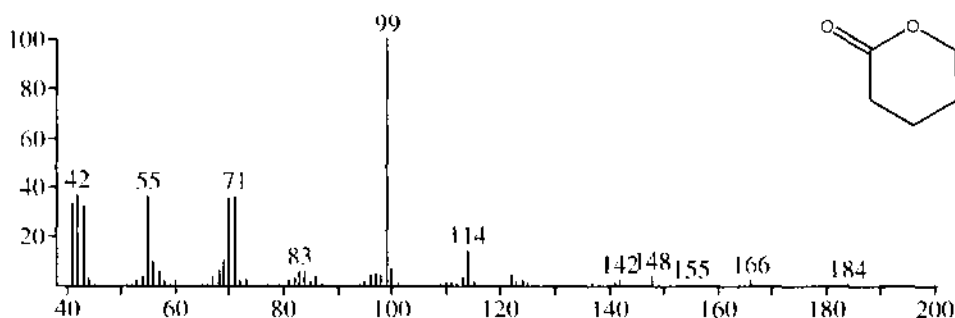
RT: 32.62 AI: 1593 KI: 1593 **Undecalactone <δ>**

CAS#: 710-04-3 MF: C₁₁H₂₀O₂ FW: 184 MSD LIB#: 1980

CN: 2H-pyran-2-one, 6-hexyltetrahydro-

Synonyms: δ-hexyl valerolactone

Source: Bedoukian Res. ex JJ Brophy



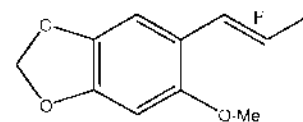
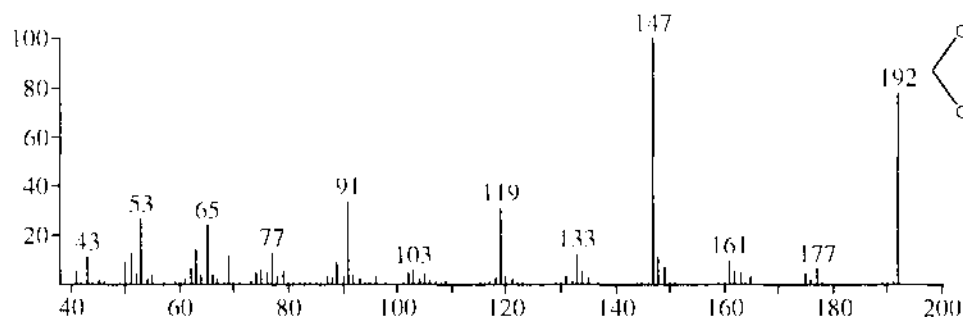
RT: 32.63 AI: 1593 KI: 1594 **Carpacin <(E)>**

CAS#: 194605-01-1 MF: C₁₁H₁₂O₃ FW: 192 MSD LIB#: 2171

CN: 1,3-benzodioxole, 5-methoxy-6-(1-propenyl)-, (E)-

Synonyms: none

Source: *Crocea exalta* ex JJ Brophy



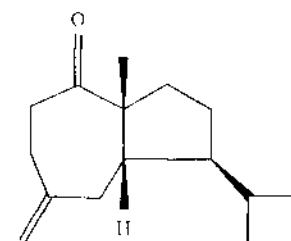
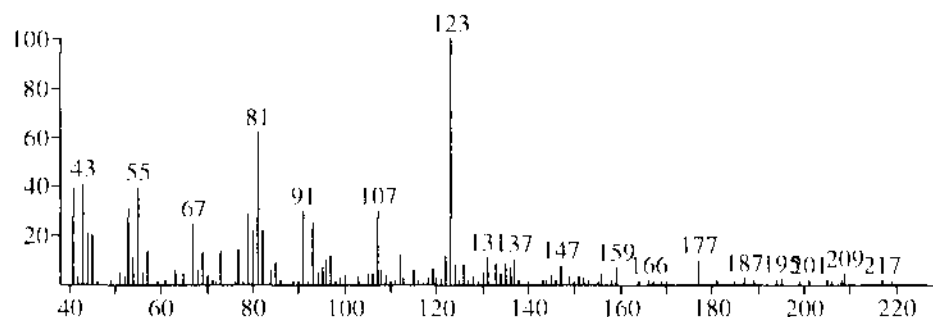
RT: 32.66 AI: 1594 KI: 1594 **Salvial-4(14)-en-1-one**

CAS#: 73809-82-2 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1423

CN: 4(1H)-azulenone, octahydro-3a-methyl-7-methylene-1-(1-methylethyl)-, (1S,3aR,8aS)-

Synonyms: none

Source: *Solidago graminifolia* oil ex P. Weyerstahl; 0.90% *Phoebe porosa*, FEJ 9:179(1994); 0.31% *Salvia sclarea* (flower); 0.04% *Hyssopus officinalis*



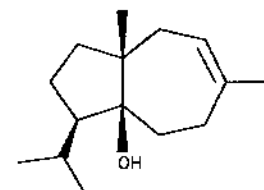
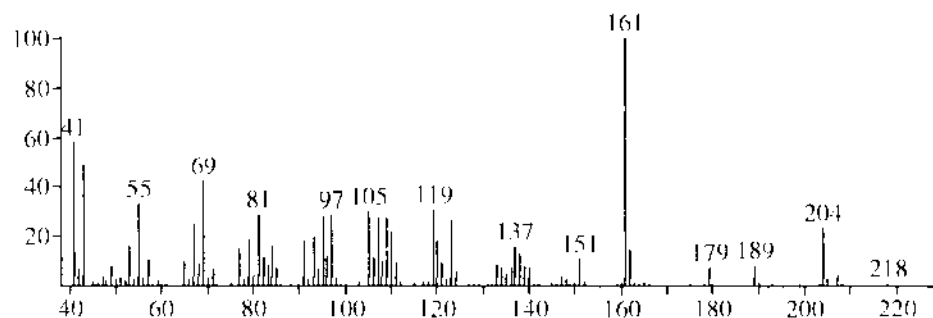
RT: 32.67 AI: 1594 KI: 1594 **Carotol**

CAS#: 465-28-1 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1233

CN: 3a(1H)-azulenol, 2,3,4,5,8,8a hexahydro-6,8a-dimethyl-3-(1-methylethyl)-, (3R-(3a,3aa,8aa))-

Synonyms: none

Source: distilled from fresh parsley leaves, RP Adams #5440; 67.24% *Daucus carota* (Pakistan), Pakistan J. Sci. Ind. Res., 20:103(1977); 0.80% *Petroselinum crispum*; 0.50% *Cuminum cyminum*



RT: 32.68 AI: 1594 KI: 1595 **Ethyl dodecanoate**

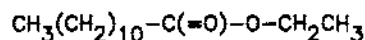
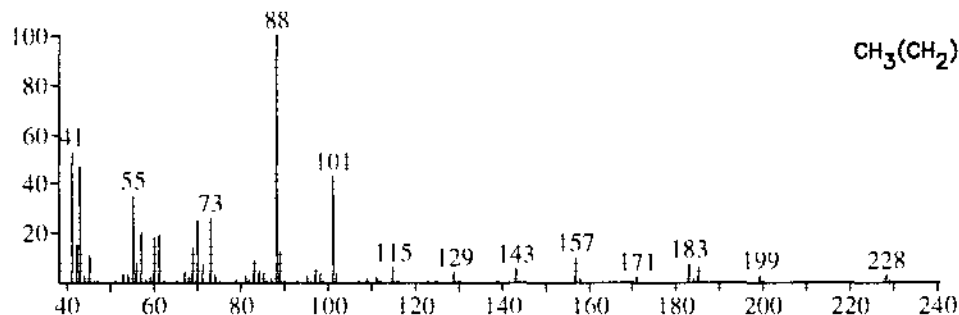
CAS#: 106-33-2 MF: C₁₄H₂₈O₂ FW: 228 MSD LIB#: 669

CN: dodecanoic acid, ethyl ester

Synonyms: ethyl laurate; ethyl dodecylate

Source: Fluka Chem.; 1.95% *Hibiscus abelmoschus*, Acta Bot. Yunnan 12:113(1990);

1.73% *Dendranthema vestitum* (flower absolute); 0.60% *Spartium junceum* (absolute)



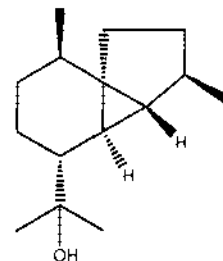
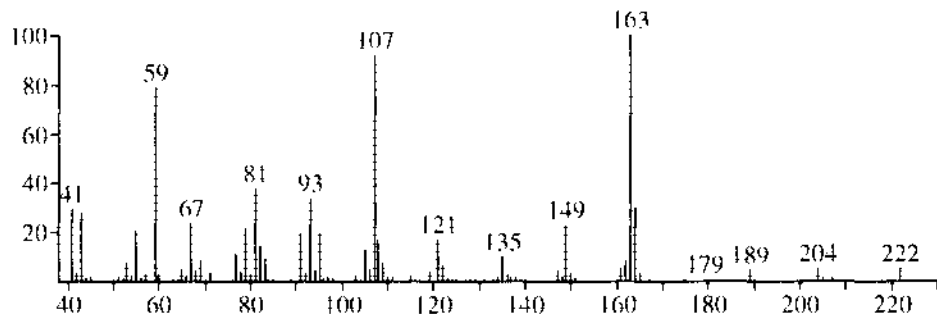
RT: 32.70 AI: 1595 KI: 1595 **Cubeban-11-ol**

CAS#: 220766-71-2 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1720

CN: 1H-cyclopenta(1,3)cyclopropa(1,2)benzene-4-methanol, octahydro- $\alpha,\alpha,3,7$ -tetramethyl-, (3R,3aR,3bS,4R,7R,7aS)-

Synonyms: none

Source: *Leptospermum myrifolium* ex JJ Brophy



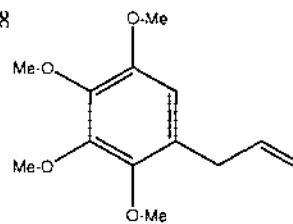
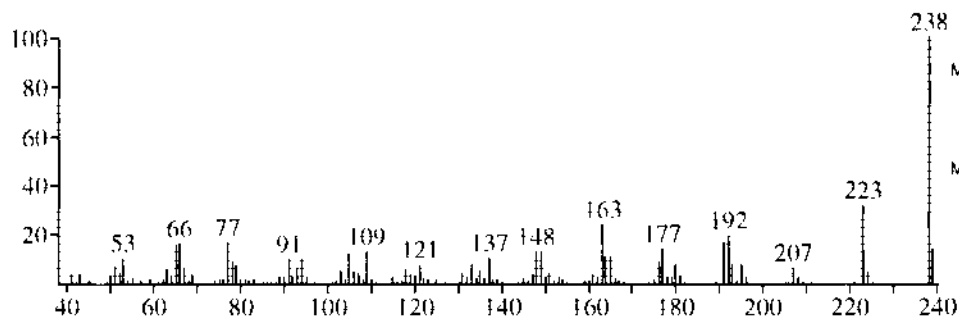
RT: 32.70 AI: 1595 KI: 1595 **Elemicin <6-methoxy>**

CAS#: 15361-99-6 MF: C₁₃H₁₈O₄ FW: 238 MSD LIB#: 1673

CN: benzene, 1-allyl-2,3,4,5-tetramethoxy-

Synonyms: allyl tetramethoxybenzene

Source: *Haplostichanthus johnsonii* oil ex JJ Brophy



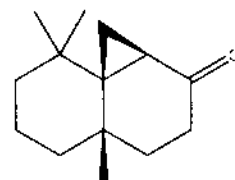
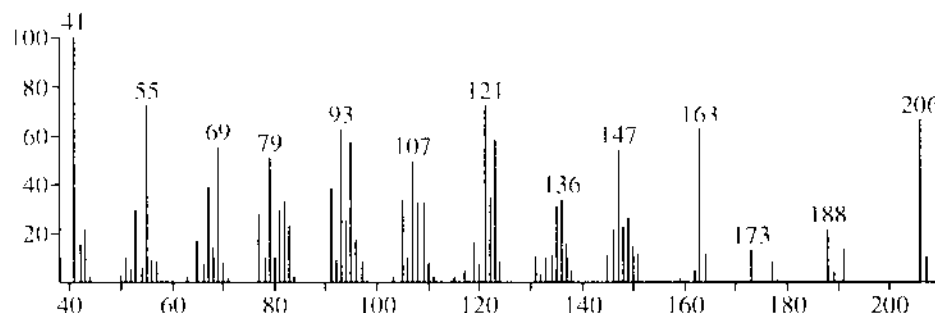
RT: 32.70 AI: 1595 KI: 1595 **Mayurone <cis-dihydro->**

CAS#: 7129-16-0 MF: C₁₄H₂₂O FW: 206 MSD LIB#: 1860

CN: cyclopropat(1)naphthalen-2(3H)-one,octahydro-4a,8,8-trimethyl-, (1aR,4aS,8aS)

Synonyms: none

Source: *Juniperus occidentalis* wood oil, fraction c-6,c-7,a-7,b-7, Joe Karchesy



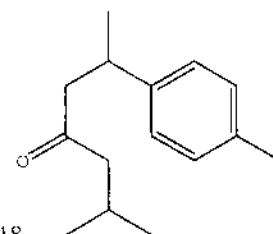
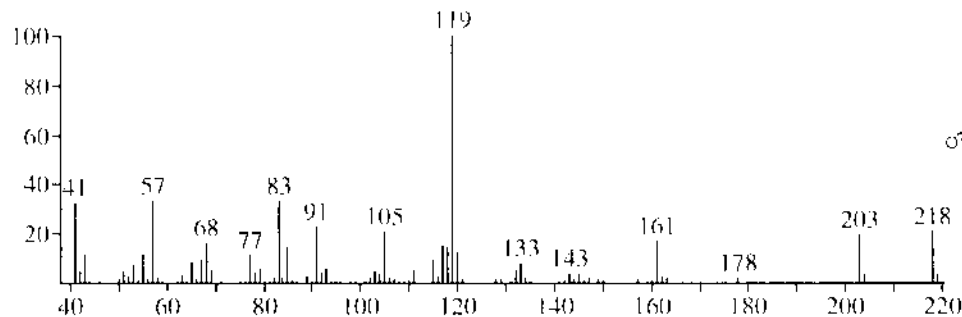
RT: 32.70 AI: 1595 KI: 1595 **Turmerone <ar-dihydro->**

CAS#: 4179-20-8 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 525

CN: 4-heptanone, 2-methyl-6-(4-methylphenyl)-

Synonyms: dihydro-ar-turmerone

Source: *Curcuma domestica* oil ex JH Zwaving, Netherlands



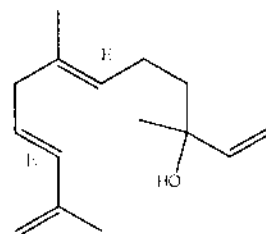
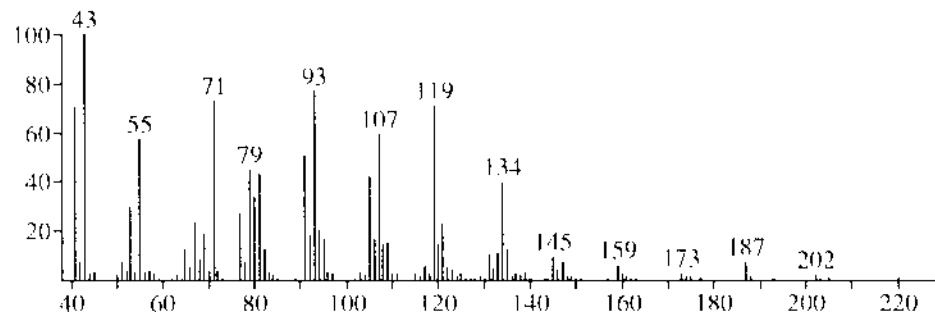
RT: 32.73 AI: 1596 KI: 1596 **Fokienol**

CAS#: 33440-00-5 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1665

CN: 1,6,9,11-dodecatetraen-3-ol, 3,7,11-trimethyl-, (6E,9E)-

Synonyms: none

Source: Pemou oil, *Fokienia hodginsii*, Vietnam, ex P. Weyerstahl



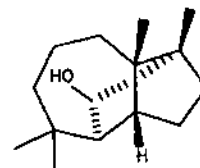
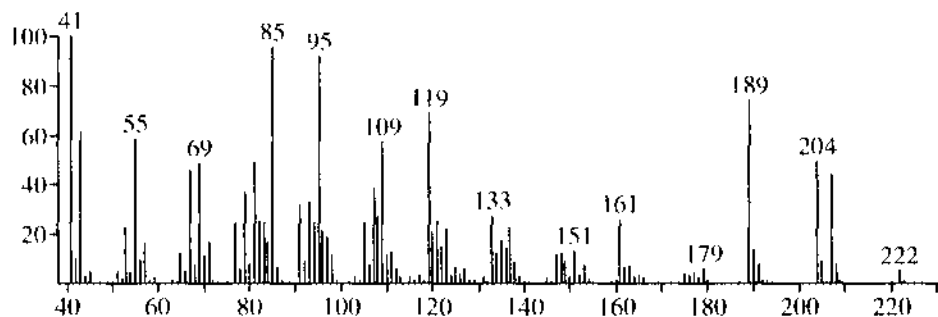
RT: 32.85 AI: 1599 KI: 1599 **Longiborneol (=Juniperol)**

CAS#: 465-24-7 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1023

CN: 1,4-methanoazulen-9-ol, decahydro-1,5,5,8a-tetramethyl-, (1R-(1 α ,3 α ,4 α ,8 α ,9S*))-

Synonyms: juniperol; macrocarpol

Source: ref. cpd. ex Rex Weavers



RT: 32.85 AI: 1599 KI: 1599 **Widdrol**

CAS#: 6892-80-4 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 893

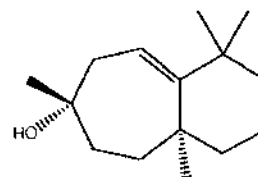
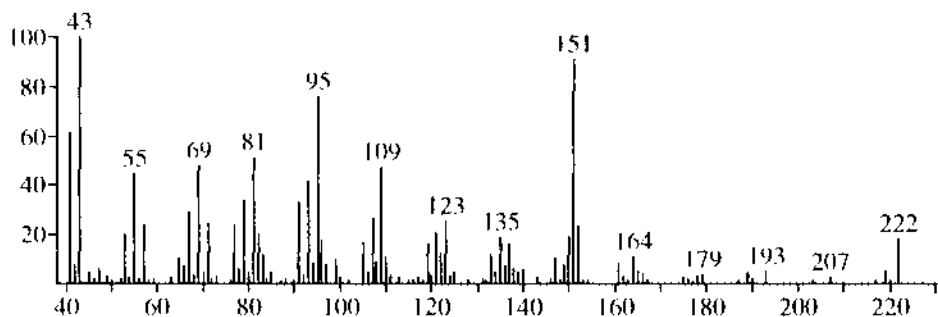
CN: 1H-benzocyclohepten-7-ol,2,3,4,4a,5,6,7,8-octahydro-1,1,4a,7-tetramethyl-,(4aS-cis)-

Synonyms: none

Source: *Juniperus recurva*, et. ac. fraction ex J. Oda, Japan:4.80% *Juniperus virginiana*,

Givaudanian 3-10(1971): 4.20% *Juniperus mexicana* (= *J. ashei*, author's note);

2.50% *Widdringtonia whytei*



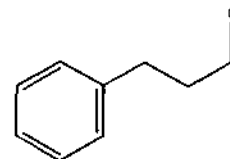
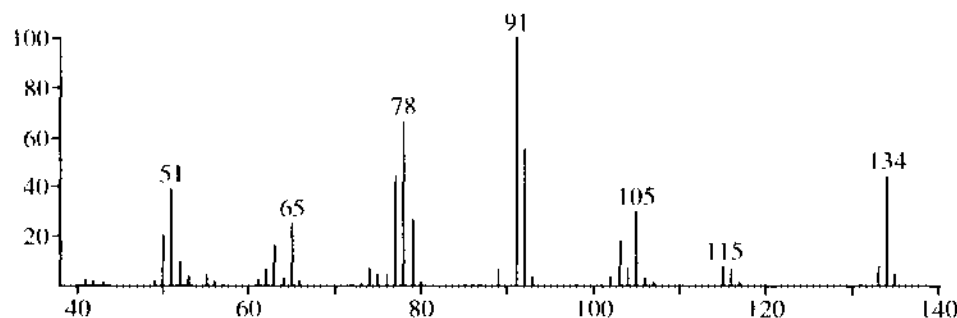
RT: 32.88 AI: 1599 KI: 1599 **Cinnamaldehyde <hydro>**

CAS#: 104-53-0 MF: C₉H₁₀O FW: 134 MSD LIB#: 1592

CN: benzenepropanal

Synonyms: Benzenepropanol, benzyl acetaldehyde, 3-phenyl-1-propanol

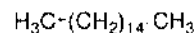
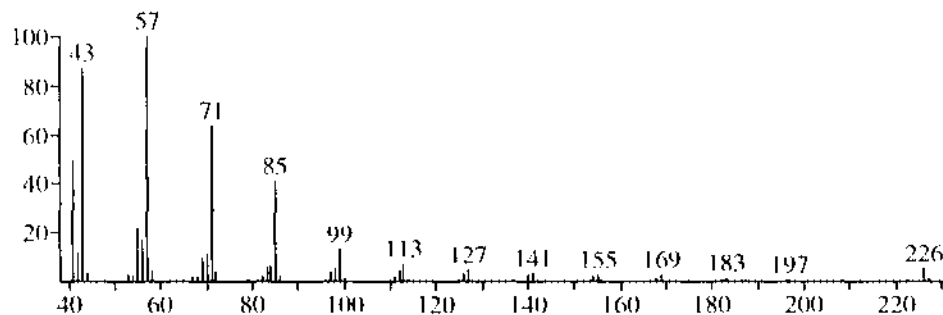
Source: Aldrich Chem.



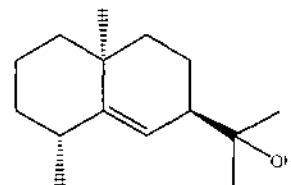
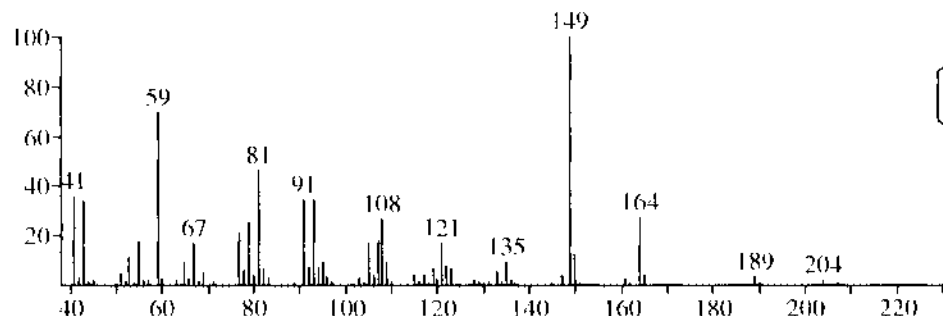
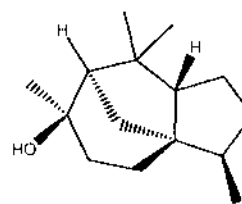
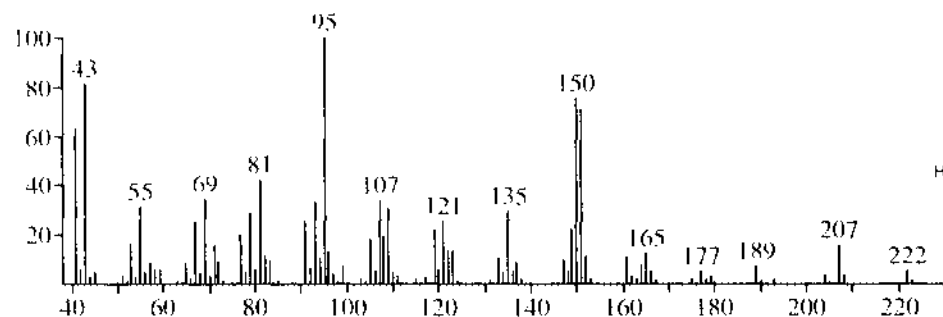
RT: 32.89 AI: 1600 KI: 1600 **Hexadecane <n>**CAS#: 544-76-3 MF: C₁₆H₃₄ FW: 226 MSD LIB#: 96

CN: hexadecane

Synonyms: cetane

Source: Alkanes mix, Alltech Assoc.; 2.70% *Rosa damascena*, Parl. Cosm. Savons 8:33(1976);0.60% *Mentha piperita*; 0.40% *Brassica juncea* (flowers)RT: 32.89 AI: 1600 KI: 1600 **Rosifoliol**CAS#: 63891-61-2 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1595CN: 2-naphthalenemethanol, 2,3,4,4a,5,6,7,8-octahydro- α,α , 4a, 8-tetramethyl-, (2R, 4aS, 8R)-

Synonyms: none

Source: *Prostanthera staurophylla* oil ex Ian Southwell; 0.70% *Angelica archangelica*,J. Ag. Food Chem. 42:1979(1994); 0.68% *Phoebe porosa*; 0.05% *Melaleuca alternifolia*RT: 32.91 AI: 1600 KI: 1600 **Cedrol**CAS#: 77-53-2 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 891CN: 1H-3a,7-methanoazulen-6-ol, octahydro-3,6,8,8-tetraethyl-, (3R-(3 α ,3 β ,6 α ,7 β ,8 $\alpha\alpha$))-Synonyms: 8- β -cedran-8-olSource: *Juniperus ashei* cedarwood oil RP Adams #5127; 31.60% *Juniperus virginiana*,Perf. Flav., 5:3,63(1980); 25.00% *Juniperus ashei*; 13.88% *Juniperus oxycedrus* (leaf)

RT: 32.92 AI: 1600 KI: 1600 **Guaiol**

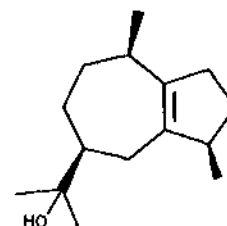
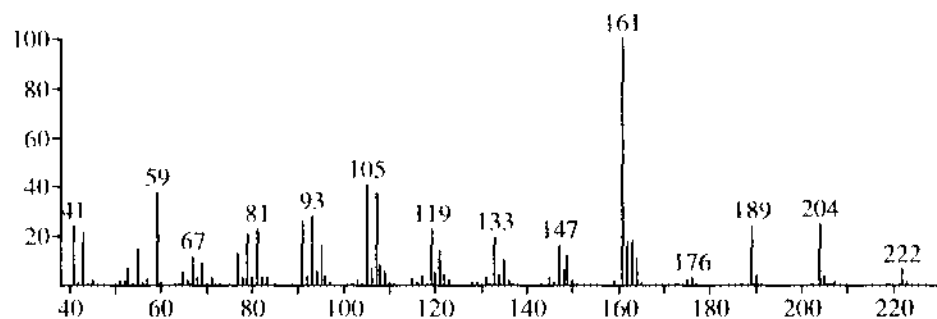
CAS#: 489-86-1 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 760

CN: 5-azulenemethanol, 1,2,3,4,5,6,7,8-octahydro- α,α , 3,8-tetramethyl-, (3S-(3 α ,5 α ,8 α))-

Synonyms: guai-1(5)-en-11-ol; champacol; champaca camphor

Source: ref. cpd. ex E. von Rudloff; 33.00% *Bulnesia sarmienti*, p. 1715, in: beta-Bulnesene, α -guaiene, beta-patchoulene & guaioxide in essential oils, R. Bates, et al.,

Chem. Ind., London (1962); 7.50% *Psidium viscosa*; 5.00% *Leptospermum javanicum*



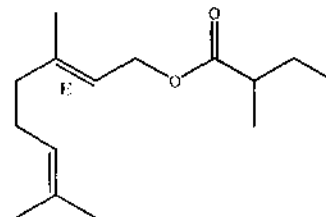
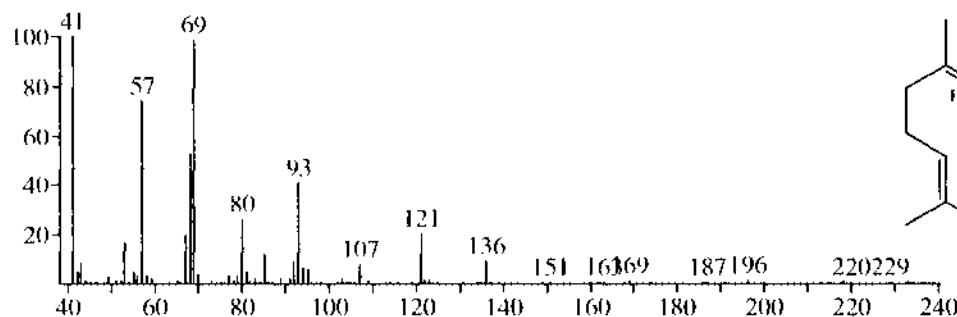
RT: 32.93 AI: 1601 KI: 1601 **Geranyl 2-methyl butanoate**

CAS#: 68705-63-5 MF: C₁₅H₂₆O₂ FW: 238 MSD LIB#: 737

CN: butanoic acid, 2-methyl, (2E)-3,7-dimethyl-2,6-octadienyl ester

Synonyms: geraniol 2-methyl butyrate; geranyl 2-methyl butyrate

Source: ref. cpds. ex J.C. Scheffer



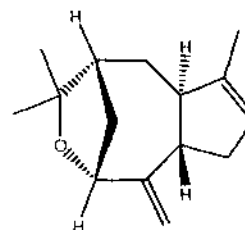
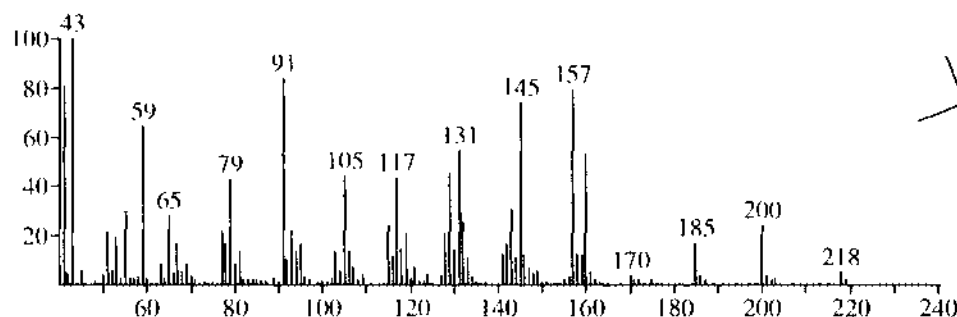
RT: 32.94 AI: 1601 KI: 1601 **Guaia-3,10(14)-diene <9,11-epoxy>**

CAS#: 176435-25-9 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 1482

CN: 2,5-methanocyclopent(d)oxocin, 1,2,4,5,6,6a,9,9a-octahydro-4,4,7-trimethyl-1-methylene-, (2R-(2 α ,5 α ,6 α ,9 α))-

Synonyms: none

Source: *Thuja occidentalis* wood oil ex Guy Collin



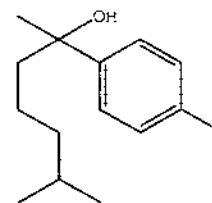
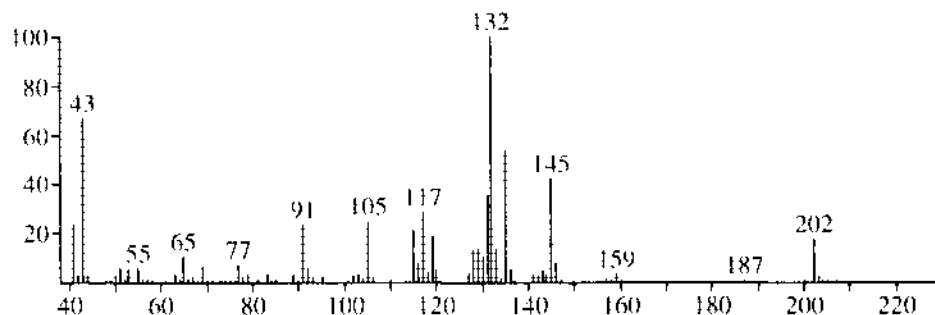
RT: 32.95 AI: 1601 KI: 1601 **Bisabolatrien-7-ol <1,3,5->**

CAS#: 73177-70-5 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 300

CN: not assigned

Synonyms: bisabolol <dihydro(10,11)-ar- α ->

Source: ref. cpd. ex P. Weyerstahl



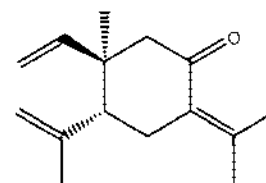
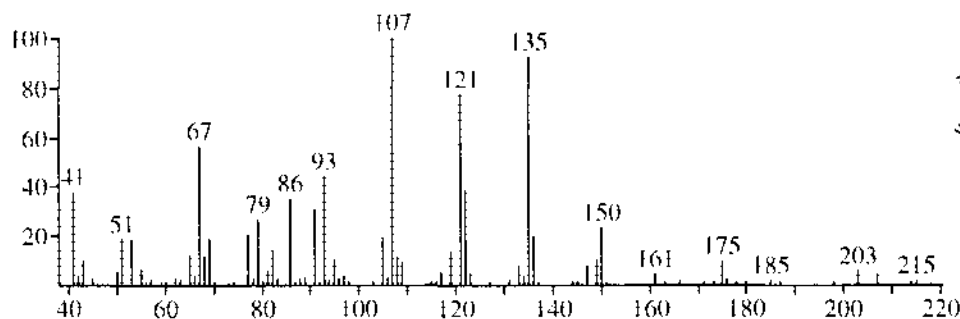
RT: 32.99 AI: 1602 KI: 1602 **Elemenone <trans- β -> (impure)**

CAS#: 30824-86-3 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 649

CN: cyclohexanone, 5-ethenyl-5-methyl-4-(1-methylethenyl)-2-(1-methylethylidene)-, trans-

Synonyms: pyrogermacrone

Source: ref. cpd. ex Robert Doss, USDA



RT: 32.99 AI: 1602 KI: 1602 **Ledol**

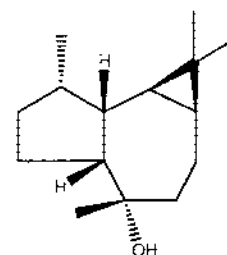
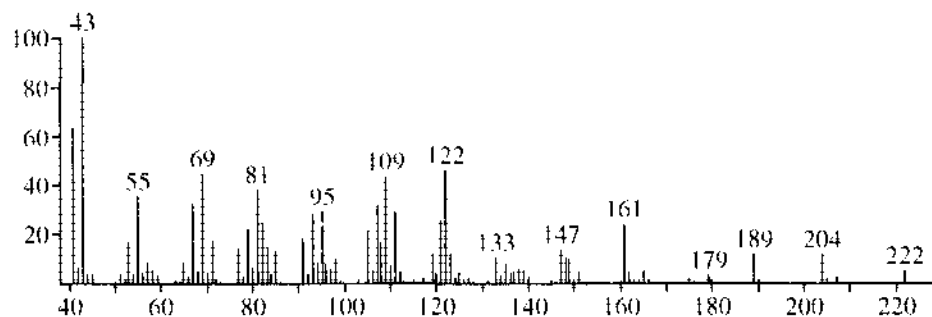
CAS#: 577-27-5 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1657

CN: 1H-cycloprop(e)azulen-4-ol, decahydro-1,1,4,7-tetramethyl-,

(1aS, 4S, 4aR, 7S, 7aR, 7bR)-

Synonyms: none

Source: *Lepechina salviaefolia* oil ex E. Stahl-Biskup: 8.30% *Aristolochia asclepiadifolia*, 11th Intl. Cong. of Ess. Oils 4:79(1989), New Delhi, India: 8.19% *Melaleuca leucadendra*: 4.44% *Melaleuca quinquenervia*



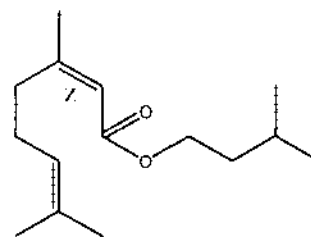
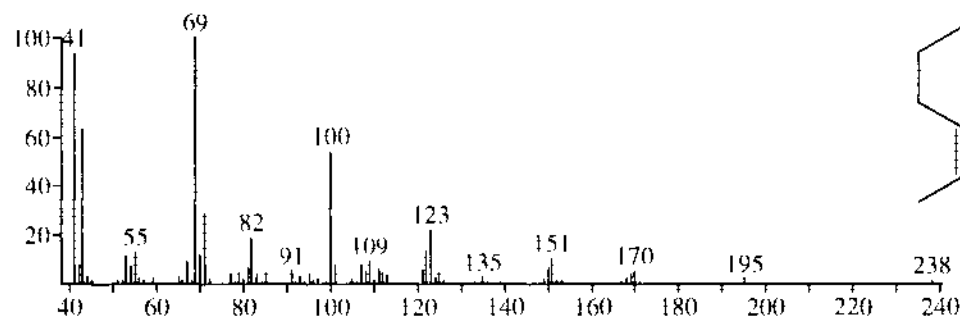
RT: 33.00 AI: 1602 KE: 1602 **Isoamyl nerolate**

CAS#: 000-00-0 MF: C₁₅H₂₆O₂ FW: 238 MSD LIB#: 854

CN: not assigned

Synonyms: isopentyl nerolate

Source: Firmenich ex Jian-Qin Cu, Kunming



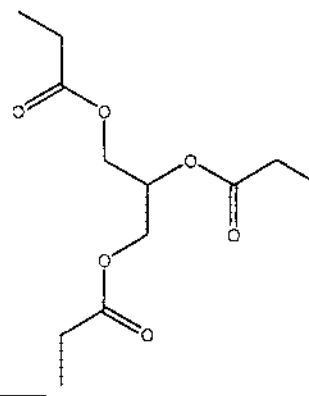
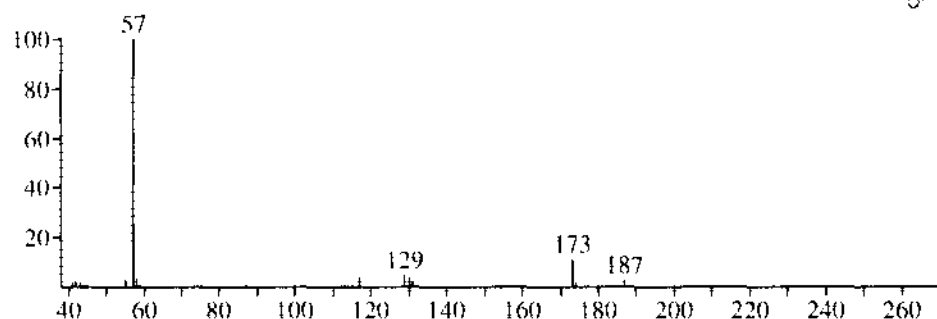
RT: 33.00 AI: 1602 KE: 1602 **Tripropionin**

CAS#: 139-45-7 MF: C₁₂H₂₀O₆ FW: 260 MSD LIB#: 1701

CN: 1,2,3-propanetriol, tripropanoate

Synonyms: glycerol tripropanoate

Source: Aldrich Chem.



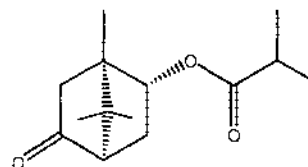
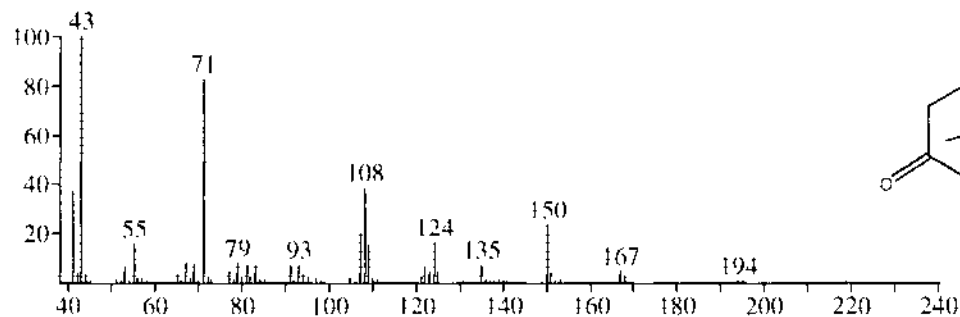
RT: 33.04 AI: 1603 KE: 1603 **Isobornyl isobutanoate <5-oxy->**

CAS#: 107783-31-3 MF: C₁₄H₂₂O₃ FW: 238 MSD LIB#: 1447

CN: propanoic acid, 2-methyl-1,7,7-trimethyl-5-oxobicyclo(2.2.1)hept-2-yl ester, (1R-exo)-

Synonyms: isoborneol isobutyrate <5-oxy->

Source: *Strobilanthes auriculatus* oil ex P. Weyerstahl



RT: 33.05 AI: 1604 KI: 1604 **Khusimone**

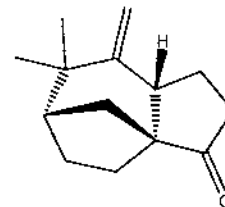
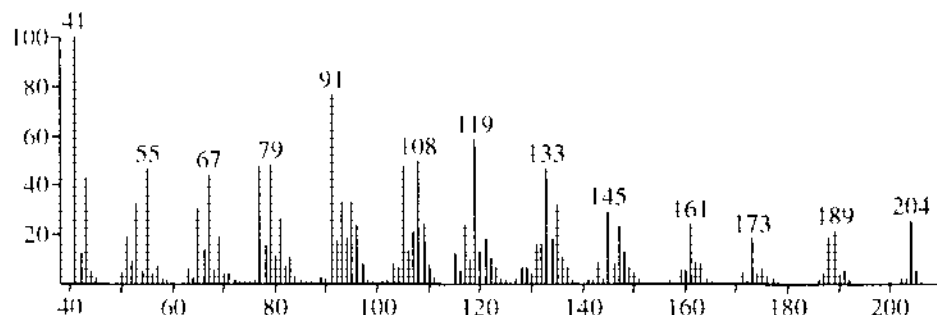
CAS#: 30557-76-7 MF: C₁₄H₂₀O FW: 204 MSD LIB#: 951

CN: 3H-3a,6-methanoazulen-3-one, octahydro-7,7-dimethyl-8-methylene-, (3aR-(3a,6a,8a))-

Synonyms: none

Source: Vetiver oil, Haiti ex Texarome, Inc.; 1.00% *Vetiveria zizanioides*, Rivista Ital.

EPPOS 54:315(1972)



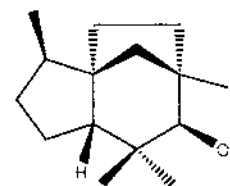
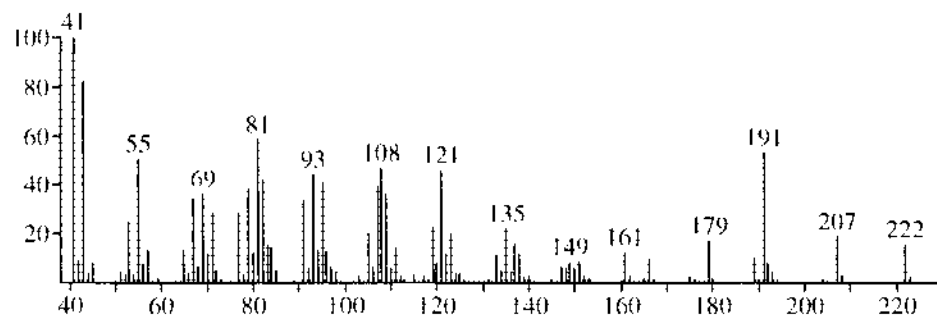
RT: 33.08 AI: 1604 KI: 1605 **Sesquithuriferol**

CAS#: 117468-55-0 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 963

CN: 1H-3a,6-methanoazulen-7-ol, octahydro-3,6,8,8-tetramethyl-, (3R-(3a,3aa,7a,8aa))-

Synonyms: none

Source: *Juniperus thurifera* wood oil, Junicedrol fraction, AF Barrero, Spain



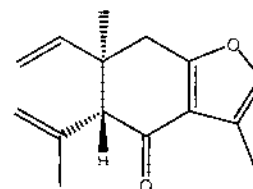
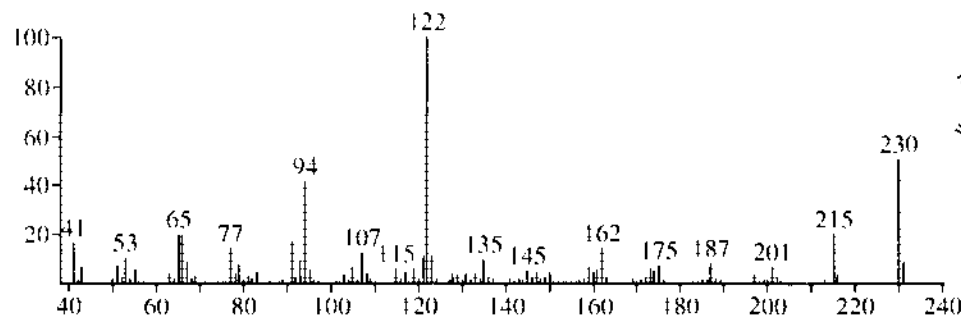
RT: 33.11 AI: 1605 KI: 1606 **Curzerenone**

CAS#: 20493-56-5 MF: C₁₅H₁₈O₂ FW: 230 MSD LIB#: 520

CN: 4(5H)-benzofuranone, 6-ethenyl-6,7-dihydro-3,6-dimethyl-5-(1-methylethenyl)-,trans-

Synonyms: none

Source: *Curcuma aromatica* oil ex Synthite Chem., India; 4.20% *Curcuma xanthorrhiza*, IFJ 7:19(1992); 3.30% *Curcuma aromatica*; 2.60% *Curcuma heyneana*



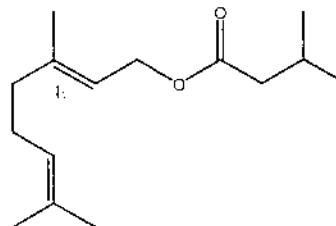
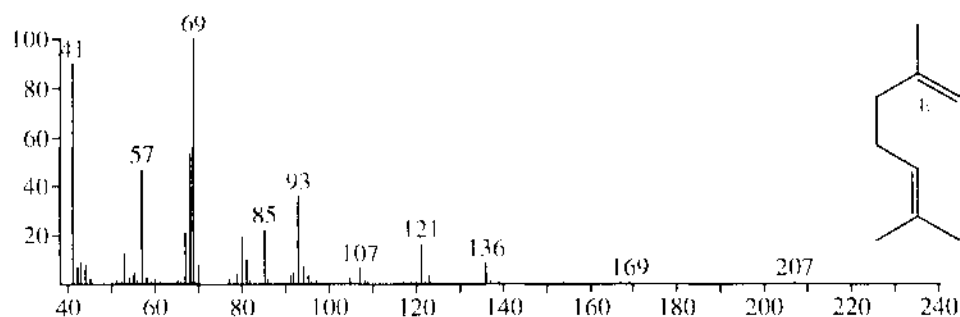
RT: 33.15 AI: 1606 KI: 1607 **Geranyl isovalerate**

CAS#: 109-20-6 MI: C₁₅H₂₆O₂ FW: 238 MSD LIB#: 738

CN: butanoic acid, 3-methyl-, (2E)-3,7-dimethyl-2,6-octadienyl ester

Synonyms: geranyl 3-methylbutanoate; isovaleric acid geranyl ester

Source: ref. cpd. ex JJC Scheffer



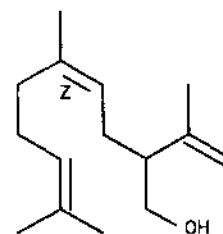
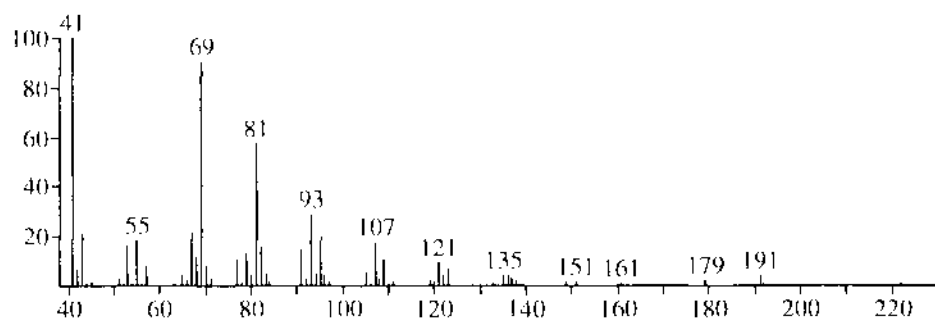
RT: 33.16 AI: 1607 KI: 1607 **Sesquilavandulol <(Z)->**

CAS#: 131485-70-6 MI: C₁₅H₂₆O FW: 222 MSD LIB#: 1409

CN: 4,8-decadien-1-ol, 5,9-dimethyl-2-(1-methylethenyl)-, (Z)-

Synonyms: none

Source: ref. cpd. ex Dragoco ex G Schmaus



RT: 33.17 AI: 1607 KI: 1607 **Dodecyl acetate**

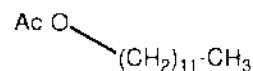
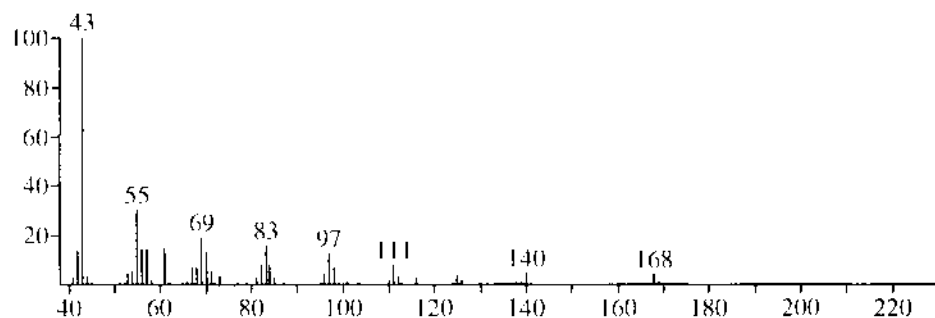
CAS#: 112-66-3 MI: C₁₄H₂₈O₂ FW: 228 MSD LIB#: 1632

CN: acetic acid, dodecyl ester

Synonyms: lauryl acetate, acetic acid <dodecyl ester->

Source: Aldrich Chem.; 7.00% *Hibiscus abelmoschus* (absolute), Helv. Chim. Acta 60:1155(1977);

3.50% *Boronia megastigma*; 2.80% *Polygonum odoratum*



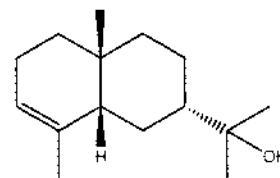
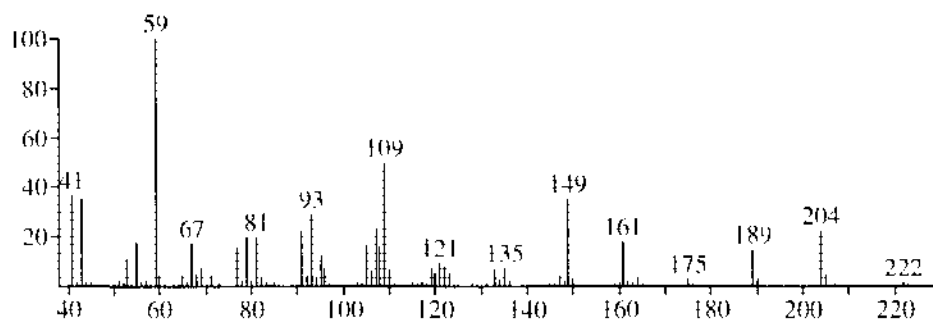
RT: 33.17 AI: 1607 KI: 1607 **Eudesmol <5-epi-7-epi- α ->**

CAS#: 446050-56-2 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 543

CN: 2-naphthalenemethanol, 1,2,3,4,4a,5,6,8a-octahydro- α , α ,4a,8-tetramethyl-, (2S,4aR,8aS)-

Synonyms: none

Source: *Cymbopogon distans* ex Vasu Dev



RT: 33.17 AI: 1607 KI: 1607 **Oplophenone < β ->**

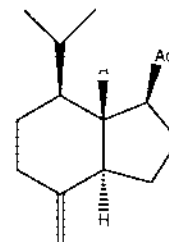
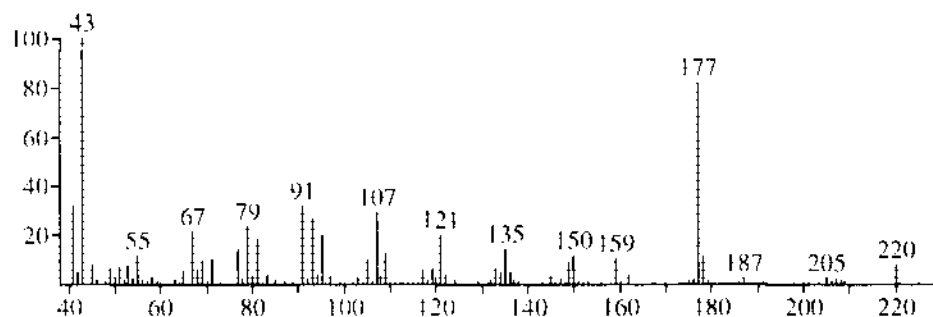
CAS#: 28305-60-4 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 950

CN: ethanone, 1-(octahydro-4-methylene-7-(1-methylethyl)-1H-inden-1-yl)-, (1S-(1 α ,3 α β ,7 α ,7 α))-

Synonyms: none

Source: *Juniperus squamata*, India, oil ex P. Weyerstahl; 0.70% *Phoebe porosa*, EFFJ 9:179(1994);

0.50% *Juniperus foetidissima* (leaf); 0.50% *Baccharis dracunculifolia*



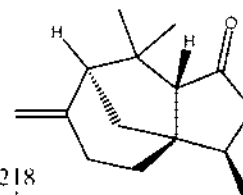
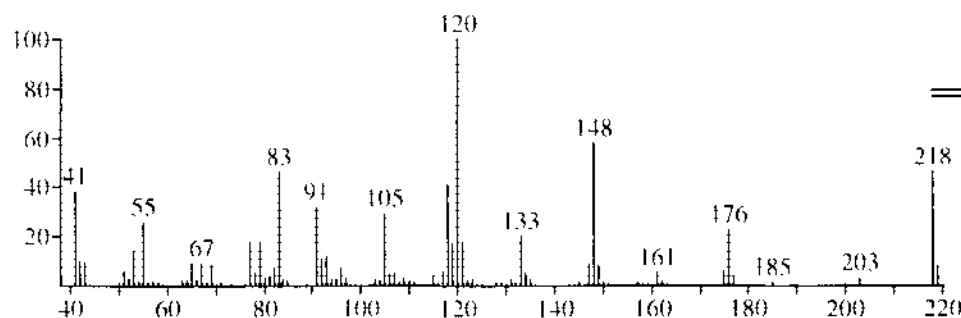
RT: 33.18 AI: 1607 KI: 1607 **Biotone < β ->**

CAS#: 19902-29-5 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 1719

CN: 1H-3a,7-methanoazulen-1-one, octahydro-3,8,8-trimethyl-6-methylene-, (3R,3aS,7S,8aS)-

Synonyms: α -cedren-4-one

Source: *Juniperus oxycedrus* wood oil ex. Armando Lara



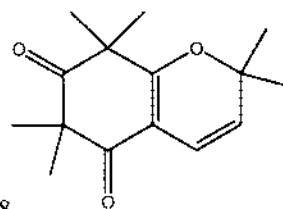
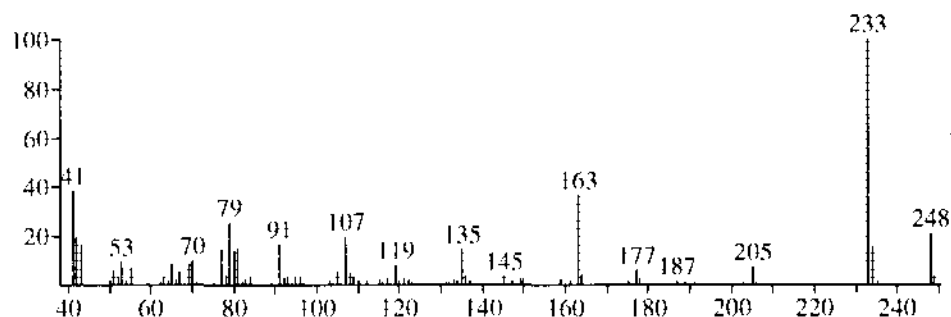
RT: 33.18 AE: 1607 KE: 1607 **Hillone**

CAS#: 186789-39-9 MF: C₁₅H₂₀O₃ FW: 248 MSD LIB#: 1677

CN: 2H-1-benzopyran-5,7(6H,8H)-dione, 2,2,6,6,8,8-hexamethyl-

Synonyms: none

Source: *Syncarpa hillii* oil ex JJ Brophy



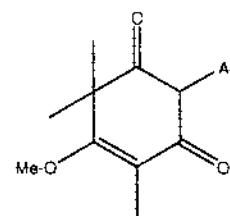
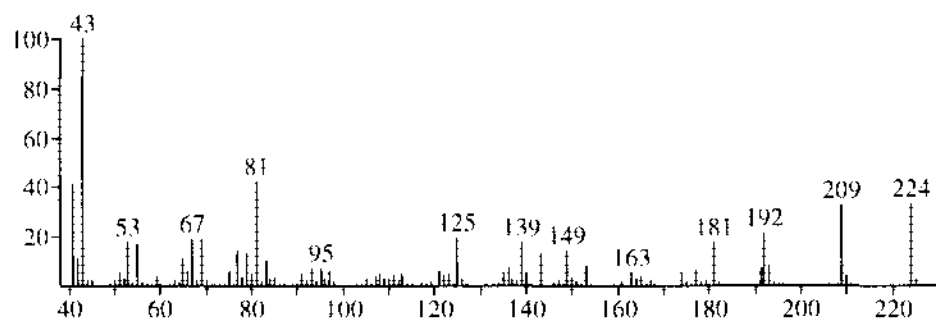
RT: 33.19 AE: 1607 KE: 1608 **Platyphyllol**

CAS#: 91688-21-0 MF: C₁₂H₁₆O₄ FW: 224 MSD LIB#: 1559

CN: 4-cyclohexene-1,3-dione, 2-acetyl-5-methoxy-4,6,6-trimethyl-

Synonyms: none

Source: *Melaleuca cajuputi* oil ex JJ Brophy



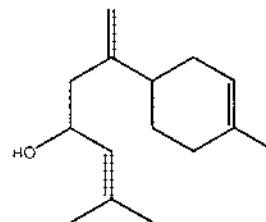
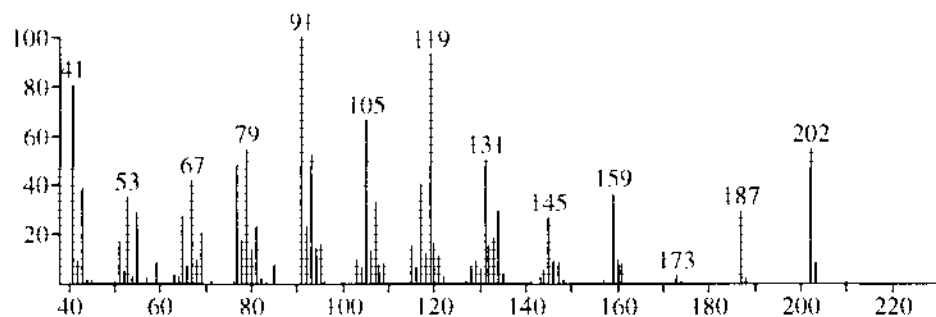
RT: 33.20 AE: 1608 KE: 1608 **Atlantol β-**

CAS#: 38142-56-2 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 252

CN: 3-cyclohexene-1-propanol, 4-methyl- γ -methylene- α -(2-methyl-1-propenyl)-

Synonyms: none

Source: ref. epd. ex P. Weyerstahl



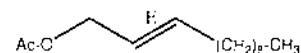
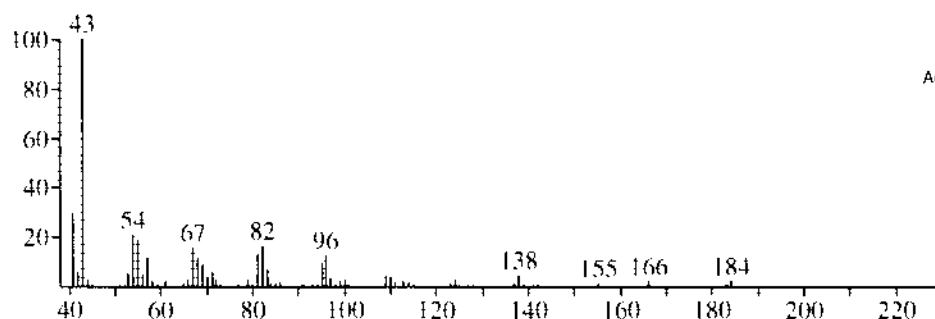
RT: 33.20 AI: 1608 KI: 1608 **Dodecenyl acetate <(2E)->**

CAS#: 84801-16-1 MF: C₁₄H₂₆O₂ FW: 226 MSD LIB#: 627

CN: 2-dodecen-1-ol, acetate, (E)-

Synonyms: none

Source: Bedoukian Res. ex Art Tucker



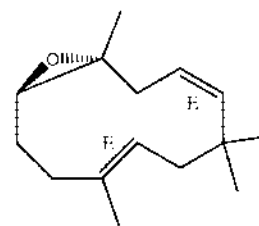
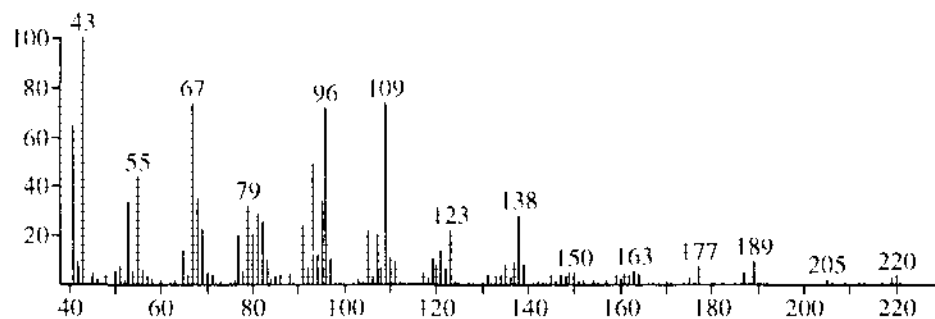
RT: 33.20 AI: 1608 KI: 1608 **Humulene epoxide II**

CAS#: 19888-34-7 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 931

CN: 12-oxabicyclo(9.1.0)dodeca-3,7-diene, 1,5,5,8-tetramethyl-, (1R-(1R*,3E,7E,11R*))-

Synonyms: humulene 1,2-epoxide

Source: *Juniperus procera* leaf oil, RP Adams #5530



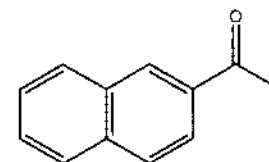
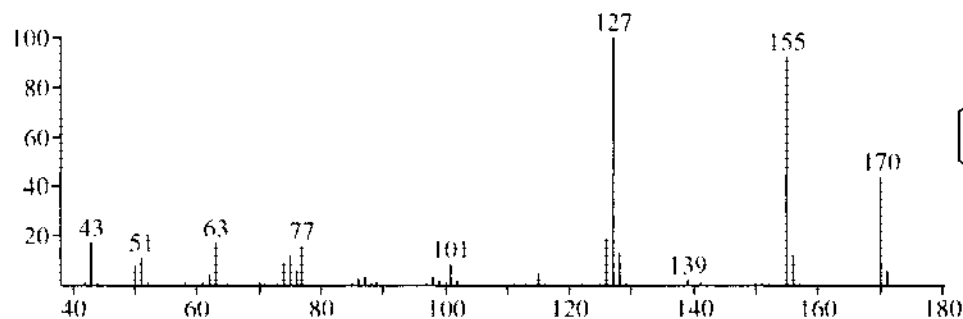
RT: 33.22 AI: 1608 KI: 1609 **Naphthalene <2-acetyl->**

CAS#: 93-08-3 MF: C₁₂H₁₀O FW: 170 MSD LIB#: 1128

CN: 2-naphthyl methyl ketone

Synonyms: 2'-acetonaphthone; orange crystals

Source: Aldrich Chem.



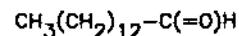
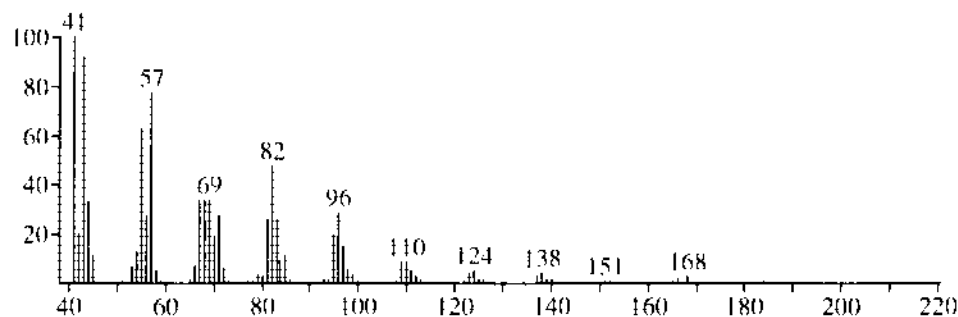
RT: 33.35 AI: 1611 KI: 1612 **Tetradecanal**

CAS#: 124-25-4 MF: C₁₄H₂₈O FW: 212 MSD LIB#: 1474

CN: tetradecanal

Synonyms: myristaldehyde

Source: Aldrich Chem. ex Art Tucker



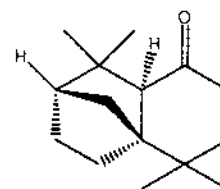
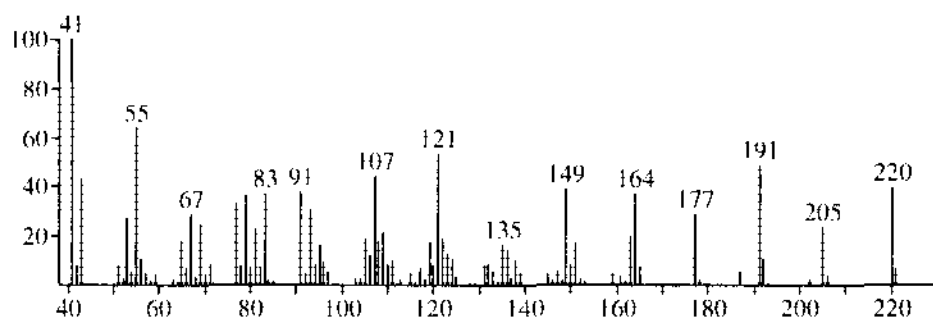
RT: 33.37 AI: 1612 KI: 1613 **Isolongifolanone <cis->**

CAS#: 26839-72-5 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 870

CN: 2H-2,4a-methanonaphthalen-8(5H)-one, hexahydro-1,1,5,5-tetramethyl-, (2S,4aS,8aR)-

Synonyms: none

Source: Quest International ex Jian-Qin Cu, Kunming



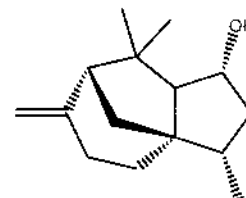
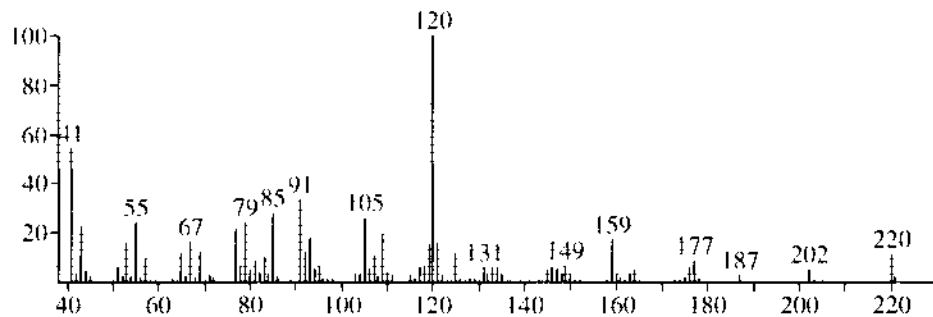
RT: 33.39 AI: 1612 KI: 1613 **Biotol <β->**

CAS#: 19902-26-2 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 294

CN: 1H-3a,7-methanoazulen-1-ol, octahydro-3,8,8-trimethyl-6-methylene-, [1S-(1α,3α,3aβ,7β,8a,α)]-

Synonyms: cedr-8(15)-en-4β-ol

Source: *Scapania undulata* oil ex Larry Cool



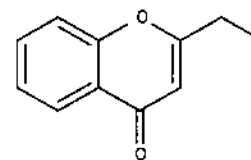
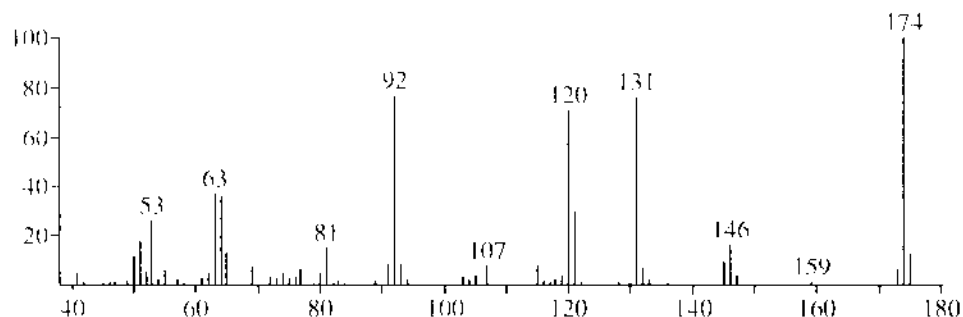
RT: 33.42 AI: 1613 KI: 1614 **Ethyl chromone <2->**

CAS#: 14736-30-2 MF: C₁₁H₁₀O₂ FW: 174 MSD LIB#: 123

CN: 4H-1-benzopyran-4-one, 2-ethyl-

Synonyms: none

Source: *Anomyrtus meli* oil ex P. Weyerstahl



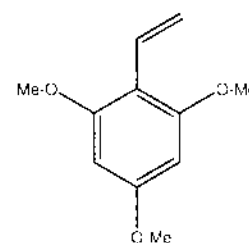
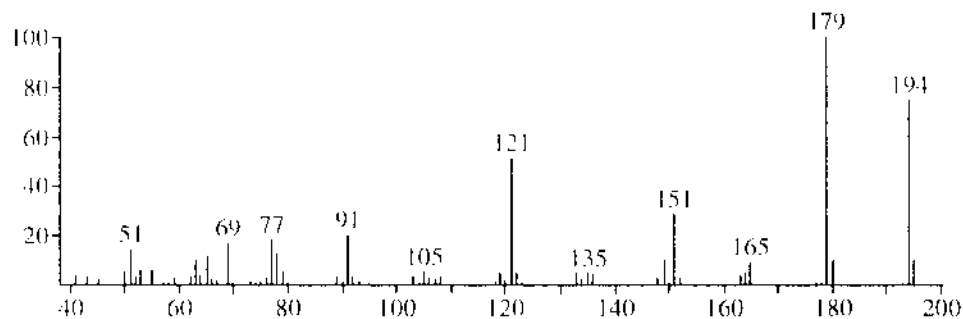
RT: 33.42 AI: 1613 KI: 1614 **Styrene <2,4,6-trimethoxy->**

CAS#: 40243-91-2 MF: C₁₁H₁₄O₃ FW: 194 MSD LIB#: 1835

CN: benzene, 2-ethenyl-1,3,5-trimethoxy-

Synonyms: none

Source: *Zieria southwellii* ex Ian Southwell;



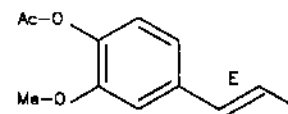
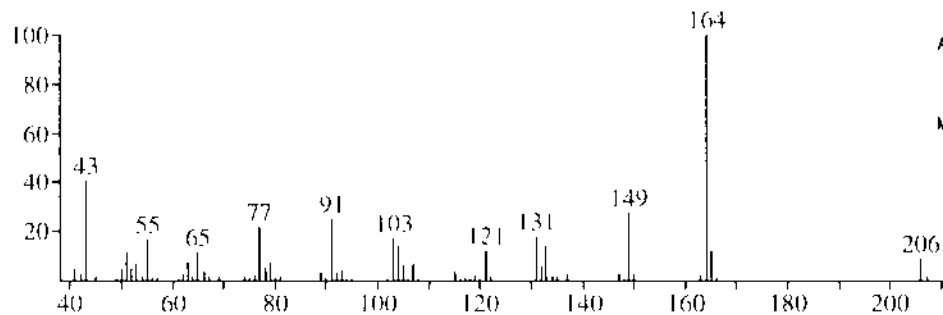
RT: 33.46 AI: 1614 KI: 1615 **Isoeugenol acetate <(E)->**

CAS#: 5912-87-8 MF: C₁₂H₁₄O₃ FW: 206 MSD LIB#: 863

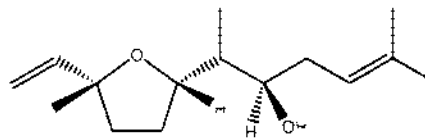
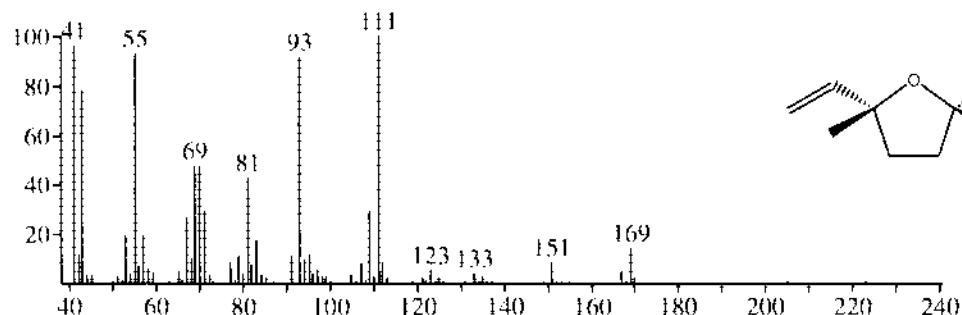
CN: phenol, 2-methoxy-4-(1-propenyl)-, acetate, (E)-

Synonyms: trans-isoeugenol acetate

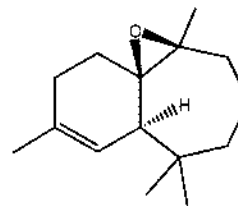
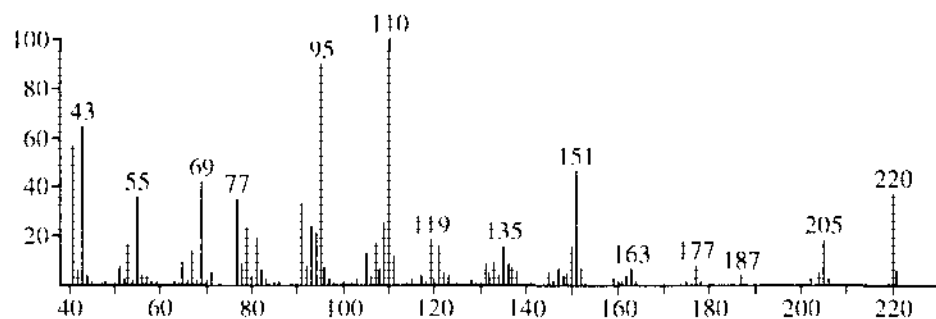
Source: acetylation of isoeugenol isomers (6432)



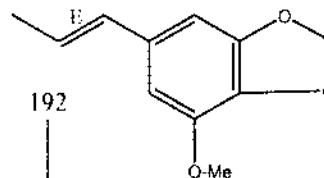
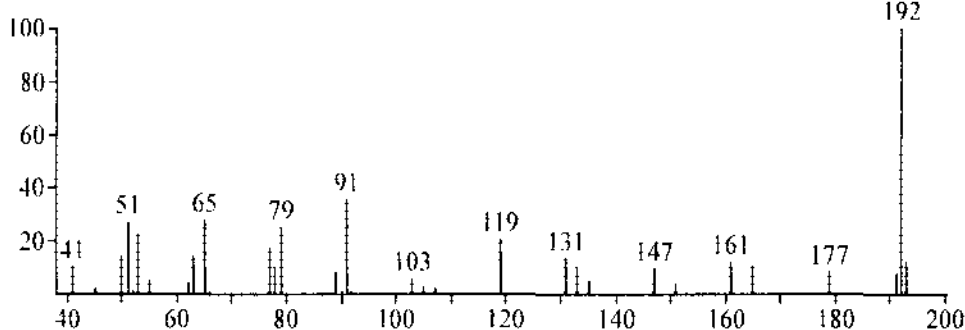
RT: 33.47 AI: 1615 KI: 1615 **Davanol D1 (isomer 1)**
 CAS#: 000-00-0 MF: C₁₅H₂₆O₂ FW: 238 MSD LIB#: 559
 CN: not assigned
 Synonyms: none
 Source: ref. epd. ex Weyerstahl



RT: 33.48 AI: 1615 KI: 1616 **Himachalene oxide <β>**
 CAS#: 57819-73-5 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 244
 CN: benzo[1,7]cyclohept[1,2-b]oxirene, 1a,2,3,4,5,5a,8,9-octahydro-1a,5,5,7-tetramethyl-, (1aS-(1aα,5aα,9aS*))-
 Synonyms: none
 Source: *Artemisia vestita* oil ex P. Weyerstahl



RT: 33.52 AI: 1616 KI: 1617 **Isonyristicin**
 CAS#: 18312-21-5 MF: C₁₁H₁₂O₃ FW: 192 MSD LIB#: 1810
 CN: 1,3-benzodioxole, 4-methoxy-6-(E)-1-propenyl-
 Synonyms: trans-isonyristicin
 Source: ref. epd. ex K-H Kubeczka

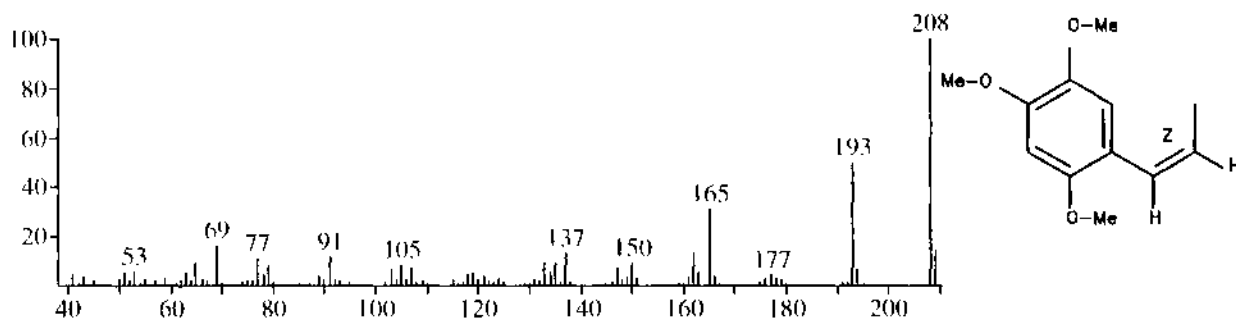


RT: 33.53 AI: 1616 KI: 1617 **Asarone <(Z)->**CAS#: 5273-86-9 MF: C₁₂H₁₆O₃ FW: 208 MSD LIB#: 348

CN: benzene, 1,2,4-trimethoxy-5-(1-propenyl)-, (Z)-

Synonyms: asarone, β -; cis-asarone

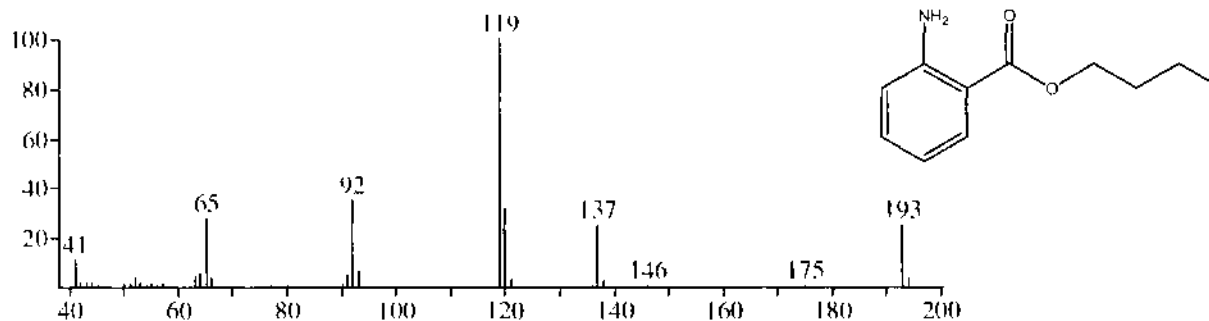
Source: calamus oil ex Firmenich ex Alan F. Thomas

RT: 33.56 AI: 1617 KI: 1618 **Butyl anthranilate**CAS#: 7756-96-9 MF: C₁₁H₁₅N O₂ FW: 193 MSD LIB#: 327

CN: benzoic acid, 2-amino-, butyl ester

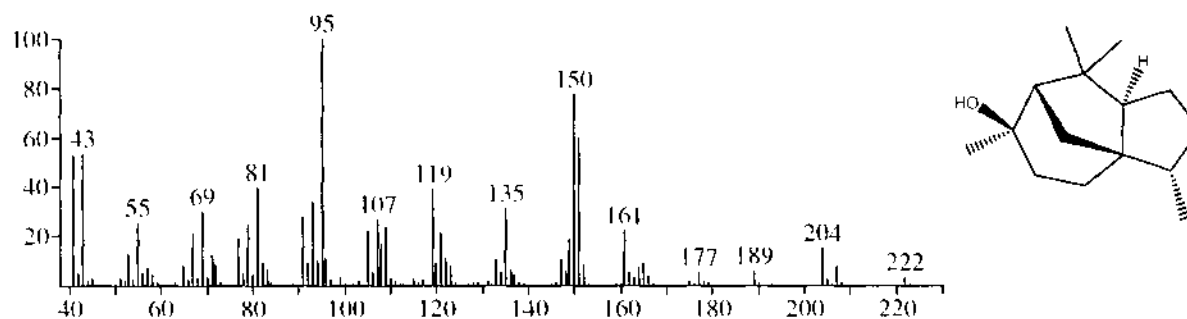
Synonyms: butyl o-aminobenzoate; anthranilic acid, butyl ester

Source: Aldrich Chem.

RT: 33.59 AI: 1618 KI: 1619 **Cedrol <epi->**CAS#: 19903-73-2 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 398CN: 1H-3a,7-methanoazulen-6-ol, octahydro-3,6,8,8-tetramethyl-, (3R-(3 α ,3 α β ,6 β ,7 β ,8 α α))-

Synonyms: cedran-8-ol; 6-isocedrol

Source: Fluka Chem.



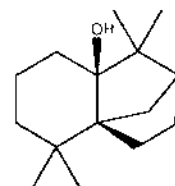
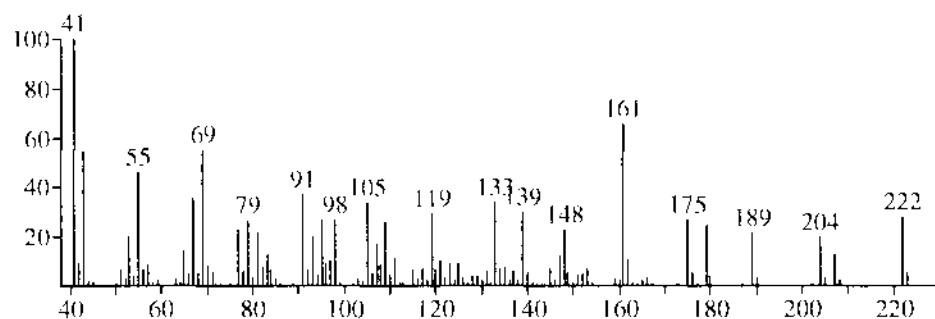
RT: 33.59 AI: 1618 KI: 1619 **Isolongifolan-7- α -ol**

CAS#: 57566-26-4 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 868

CN: 8aH-2,4a-methanonaphthalen-8a-ol, octahydro-1,1,5,5-tetramethyl-, (2S-(2 α ,4 α ,8 α))-

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl



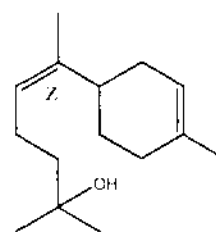
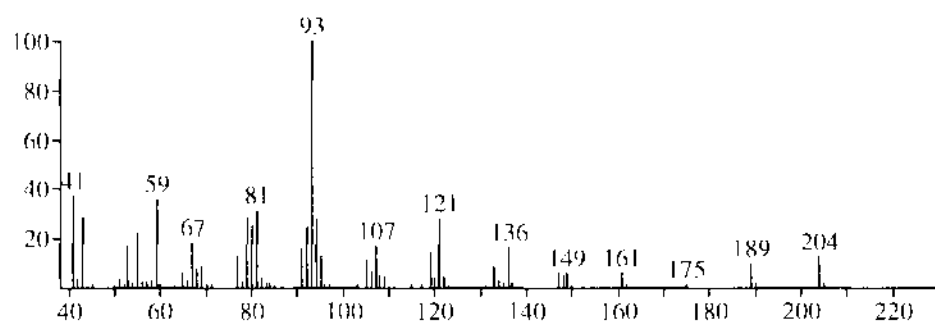
RT: 33.60 AI: 1618 KI: 1619 **Bisaboladien-4-ol <2,(7Z)->**

CAS#: 000-00-0 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 298

CN: 5 hepten-2-ol, 2-methyl-6-(4-methyl-3-cyclohexen-1-yl)-, (Z)-

Synonyms: Bisabolol-11-ol <Z->

Source: ref. cpd. ex P. Weyerstahl



RT: 33.60 AI: 1618 KI: 1619 **Cubenol <1,10-di-epi->**

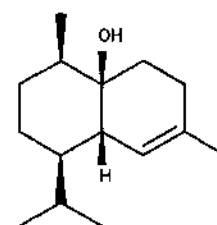
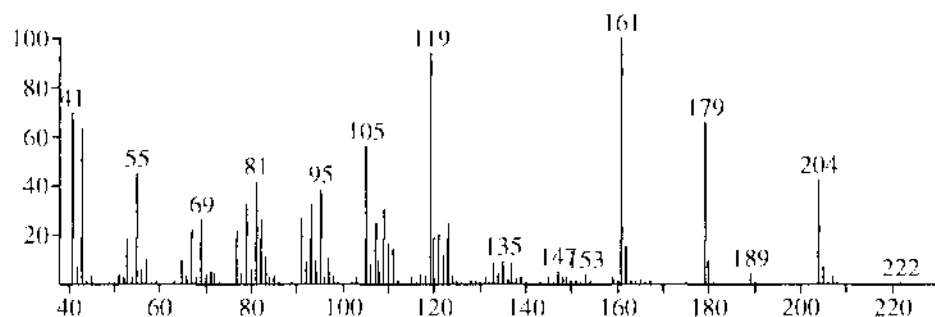
CAS#: 73365-77-2 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1440

CN: 4a(2H)naphthalenol, 1,3,4,5,6,8a-hexahydro-4,7-dimethyl-1-(1-methylethyl)-,

(1S-(1 α ,4 α ,4 α ,8 α))-

Synonyms: none

Source: *Strobilanthes auriculatus* ex P. Weyerstahl; 1.50% *Strobilanthes auriculatus* p. 567, in: Flav. & Frag.: A World Persp., Lawrence, et al., Proc. 10th Intl. Cong. Ess. Oils, Elsevier, Amsterdam(1988); 1.10% *Aydedendron barbeyana*; 0.70% *Phoebe porosa*



RT: 33.61 AI: 1618 KI: 1619 **Junenol**

CAS#: 472-07-1 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1641

CN: 1-naphthalenol, decahydro-4a-methyl-8-methylene-2-(1-methylethyl)-, (1S,2S,4aR,8aS)-

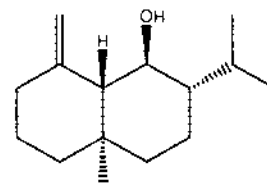
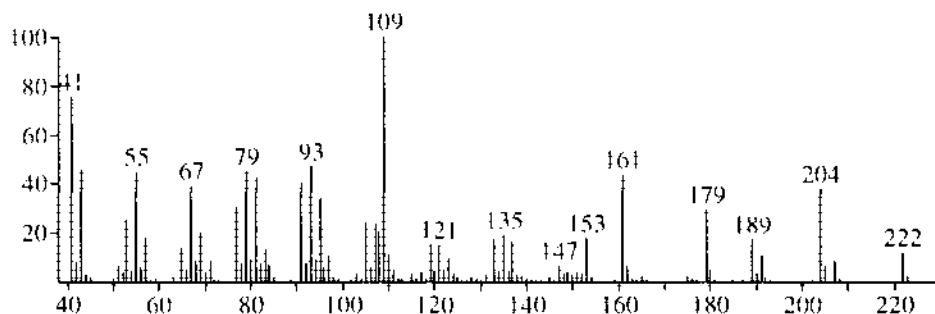
Synonyms: eudesma-4(14)-en-6 α -ol

Source: *Canarium malvense* oil ex JJ Brophy; 1.86% *Pelargonium graveolens*,

in: Cultivation & Utilization of Aromatic Plants, Atal & Kapur (Eds.),

R.R.L. Council of Scientific Ind. Res. Jammu-Tawi(1982):

1.23% *Asarum canadense*; 0.40% *Baccharis dracunculifolia*



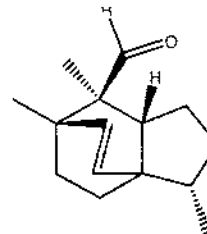
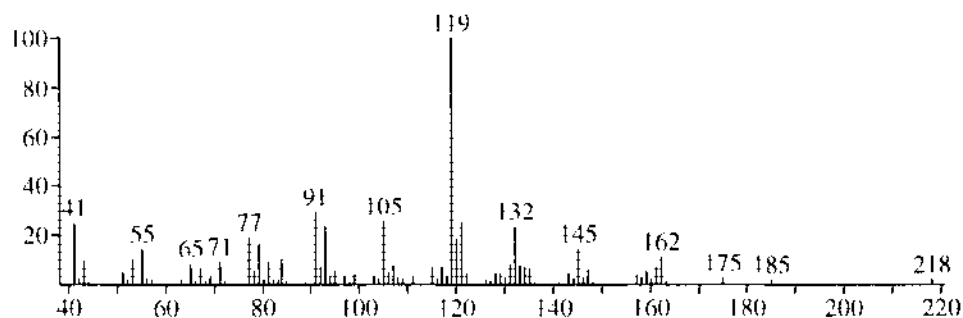
RT: 33.64 AI: 1619 KI: 1620 **Helifolen-12-al C <anti-syn-syn>**

CAS#: 235421-54-2 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 979

CN: 3a,6-ethano-3aH-indene-7-carboxaldehyde, 1,2,3,6,7,7a-hexahydro-3,6,7-trimethyl-, (3R,3aR,6R,7R,7aS)-

Synonyms: none

Source: *Lantana camara* oil ex P. Weyerstahl



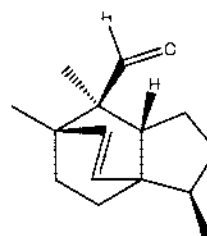
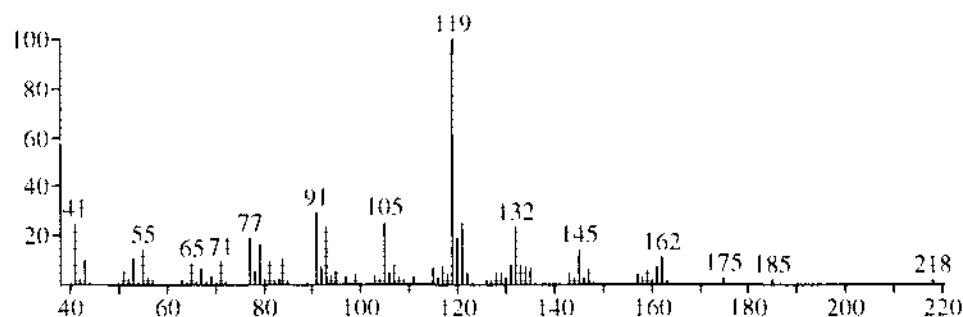
RT: 33.64 AI: 1619 KI: 1620 **Helifolen-12-al D <syn-syn-syn>**

CAS#: 235421-55-3 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 980

CN: 3a,6-ethano-3aH-indene-7-carboxaldehyde, 1,2,3,6,7,7a-hexahydro-3,6,7-trimethyl-, (3R,3aS,6S,7S,7aR)-

Synonyms: none

Source: *Lantana camara* oil ex P. Weyerstahl



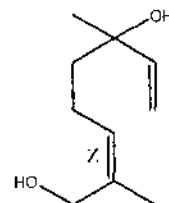
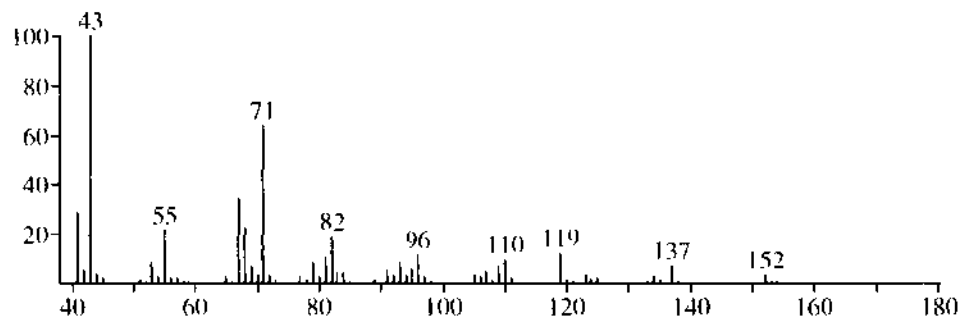
RT: 33.65 AI: 1619 KI: 1620 **Linalool <(Z)-8-hydroxy->**

CAS#: 103619-06-3 MF: C₁₀H₁₈O₂ FW: 170 MSD LIB#: 605

CN: 2,7-octadien-1,6-diol, 2,6-dimethyl-, (2Z)-

Synonyms: dihydromyrcene, 1,6-diol <Z/>

Source: ref. cpd. ex P. Weyerstahl



RT: 33.66 AI: 1620 KI: 1620 **Dill apiole**

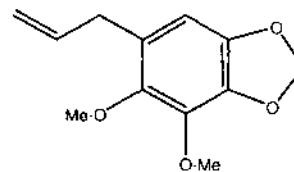
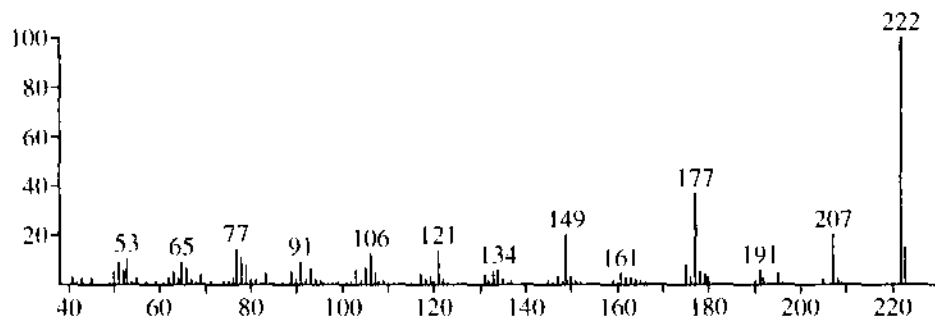
CAS#: 484-31-1 MF: C₁₂H₁₄O₄ FW: 222 MSD Lib#: 608

CN: 1,3-benzodioxole, 4,5-dimethoxy-6-(2-propenyl)-

Synonyms: none

Source: Dill seed oil ex Schilling Co.; 55.75% *Foeniculum vulgare*, Bull. Soc. Pharm.

Bordeaux 13:73(1993); 20.70% *Anethum sowa*; 19.10% *Peucedanum zenkeri*



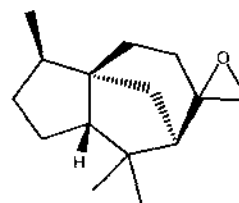
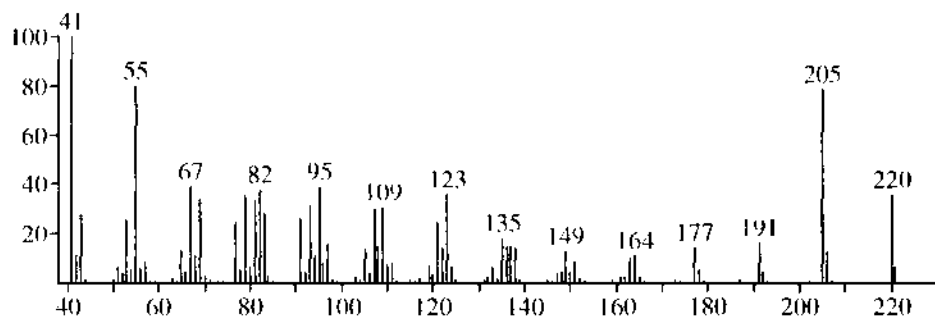
RT: 33.72 AI: 1621 KI: 1622 **Cedrene epoxide <β->**

CAS#: 000-00-0 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 407

CN: not assigned

Synonyms: 3,15-epoxyhedrone

Source: ref. cpd. ex P. Weyerstahl



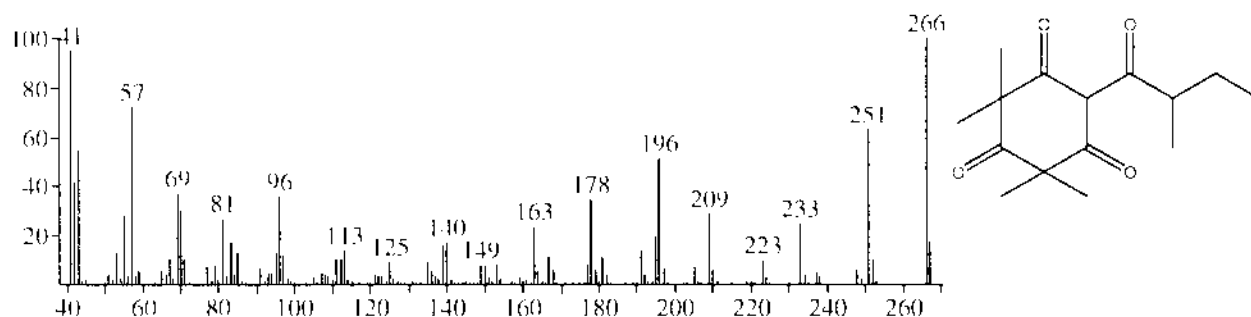
RT: 33.72 AI: 1621 KI: 1622 **Leptospermone <iso>**

CAS#: 5009-05-2 MF: C₁₅H₂₂O₄ FW: 266 MSD LIB#: 1054

CN: 1,3,5-cyclohexanetrione, 2,2,4,4-tetramethyl-6-(2-methyl-1-oxobutyl)-

Synonyms: adleptospermone; isoleptospermone

Source: Manuka oil ex E. Stahl-Biskup



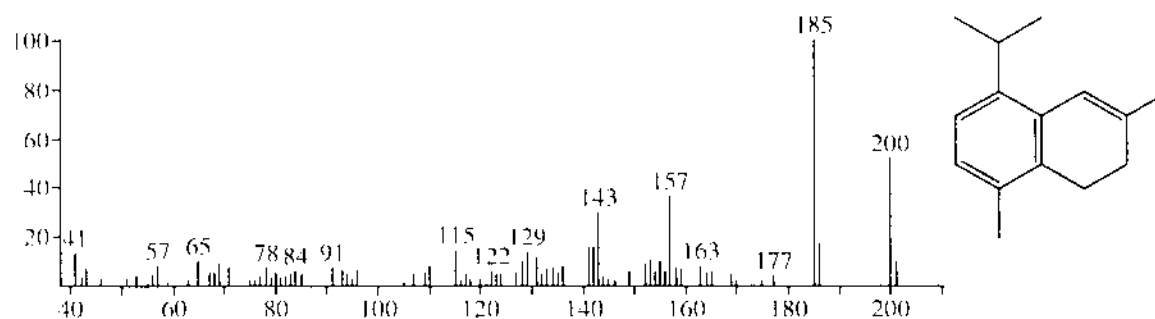
RT: 33.75 AI: 1622 KI: 1623 **Corocalene <α>**

CAS#: 20129-39-9 MF: C₁₅H₁₂O FW: 200 MSD LIB#: 1715

CN: naphthalene, 1,2-dihydro-3,8-dimethyl-5-(1-methylethyl)-

Synonyms: none

Source: *Aglaiia odorata*, ex P. Weyerstahl



RT: 33.77 AI: 1622 KI: 1623 **Eudesmol <10-epi-γ>**

CAS#: 15051-81-7 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 134

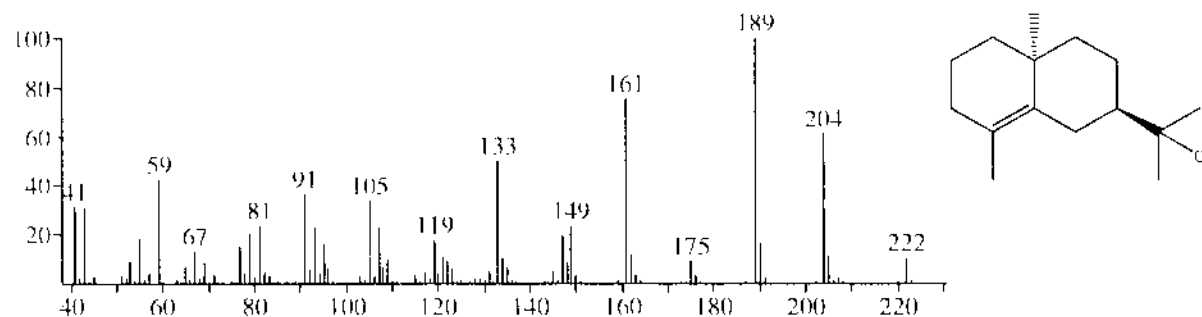
CN: 2-naphthalenemethanol, 1,2,3,4,4a,5,6,7-octahydro-α,α,4a,8-tetramethyl-, (2R-trans)-

Synonyms: none

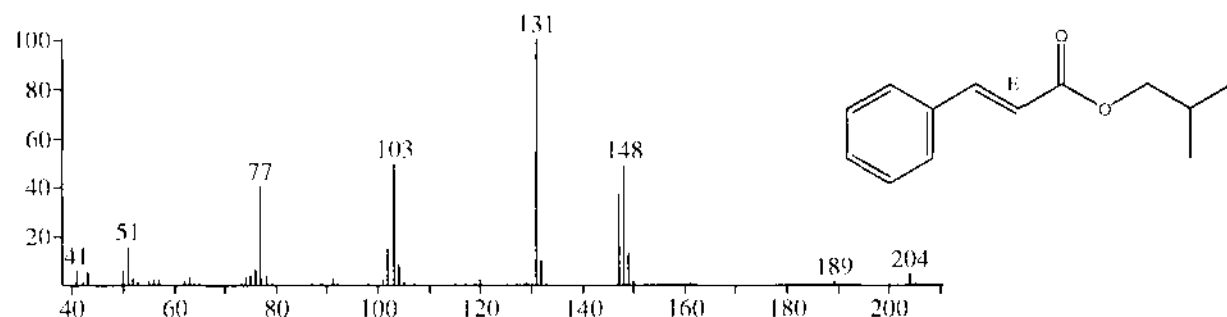
Source: comm. *Amyris* oil, Port au Prince, Haiti; 14.49% *Pelargonium graveolens*,

in: Cultivation & Utilization of Aromatic Plants, Atal & Kapur (Eds.), R.R.L. Council of Scientific Ind. Res. Jammu-Tawi(1982); 10.90% *Amyris balsamifera*;

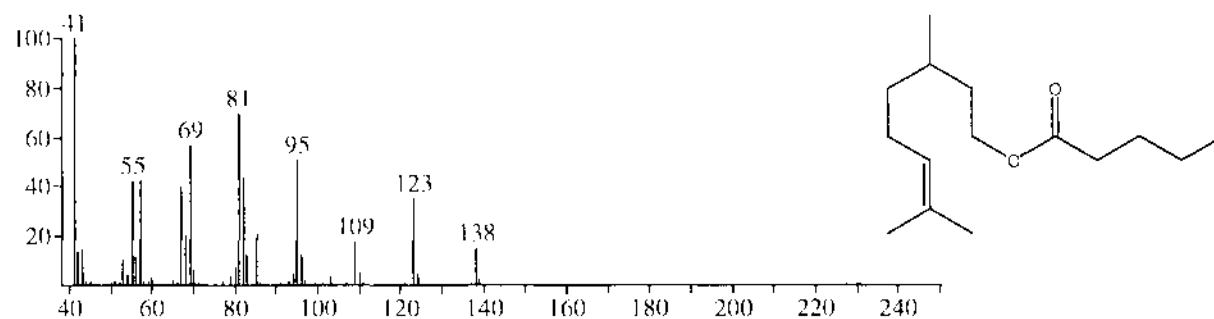
2.60% *Phoebe porosa*



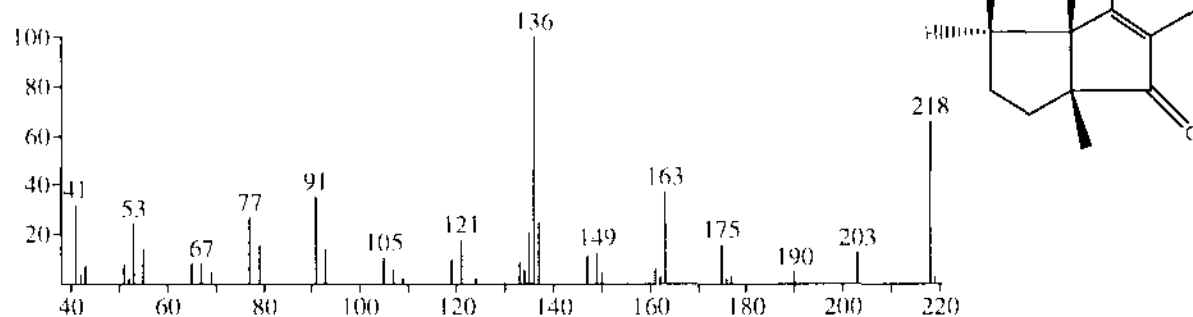
RT: 33.80 AI: 1623 KI: 1624 **Isobutyl cinnamate**
 CAS#: 122-67-8 MF: C13 H16 O2 FW: 204 MSD LIB#: 1612
 CN: 2-propenoic acid, 3-phenyl-, 2-methylpropyl ester
 Synonyms: labdanol, cinnamic acid, isobutyl ester
 Source: Aldrich Chem.



RT: 33.82 AI: 1624 KI: 1625 **Citronellyl pentanoate**
 CAS#: 7540-53-6 MF: C15 H28 O2 FW: 240 MSD LIB#: 458
 CN: pentanoic acid, 3,7-dimethyl-6-octenyl ester
 Synonyms: citronellyl valerate
 Source: Bedoukian Res. ex Art Tucker



RT: 33.83 AI: 1624 KI: 1625 **Silphiperfol-6-en-5-one**
 CAS#: 000-00-0 MF: C15 H22 O FW: 218 MSD LIB#: 648
 CN: not assigned
 Synonyms: none
 Source: *Echinopos giganteus* oil ex P. Weyerstahl



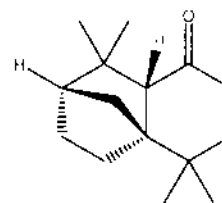
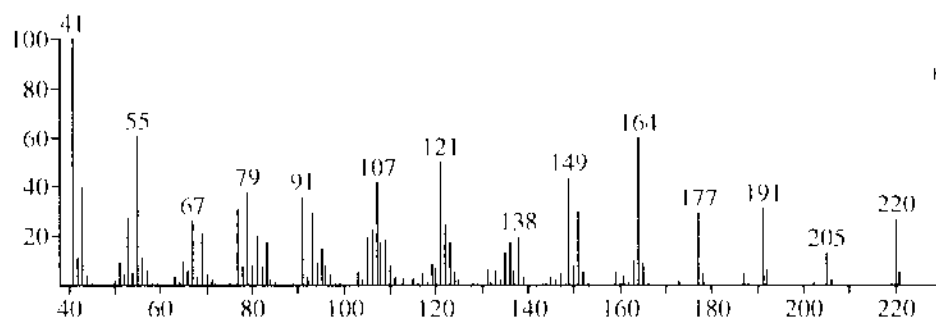
RT: 33.88 AI: 1625 KI: 1626 **Isolongifolanone <trans->**

CAS#: 26839-51-0 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 869

CN: 2H-2,4a-methanonaphthalen-8(5H)-one, hexahydro-1,1,5,5-tetramethyl-, (2S,4aS,8aS)-

Synonyms: none

Source: Quest International ex Jian-Qin Cu, Kunming



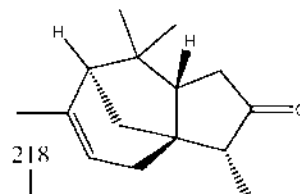
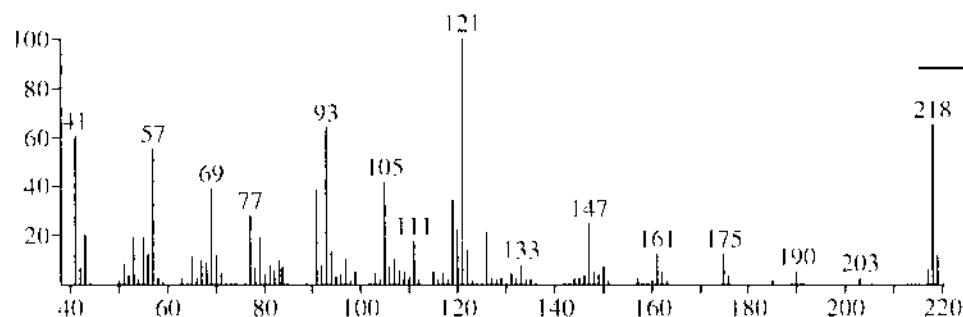
RT: 33.90 AI: 1626 KI: 1627 **Cedren-3-one <2-epi-a->**

CAS#: 288249-25-2 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 1739

CN: 1H-3a,7-methanoazulen-2(3H)-one, 4,7,8,8a-tetrahydro-3,6,8,8-tetramethyl-, (3R,3aR,7S,8aS)-

Synonyms: none

Source: *Juniperus thurifera* wood oil ex Armando Lara



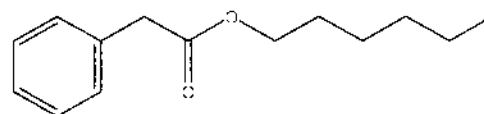
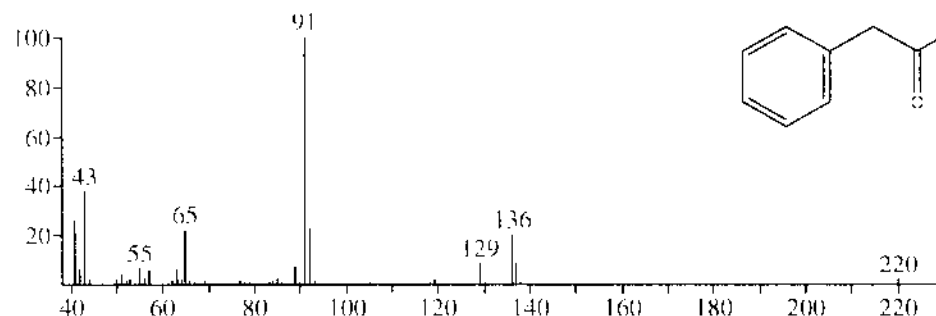
RT: 33.91 AI: 1626 KI: 1627 **Hexyl phenylacetate**

CAS#: 5421-17-0 MF: C₁₄H₂₀O₂ FW: 220 MSD LIB#: 1658

CN: benzoic acid, hexyl ester

Synonyms: benzoic acid<hexyl ester->

Source: Aldrich Chem.



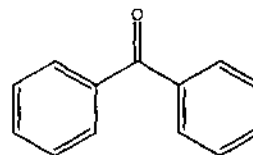
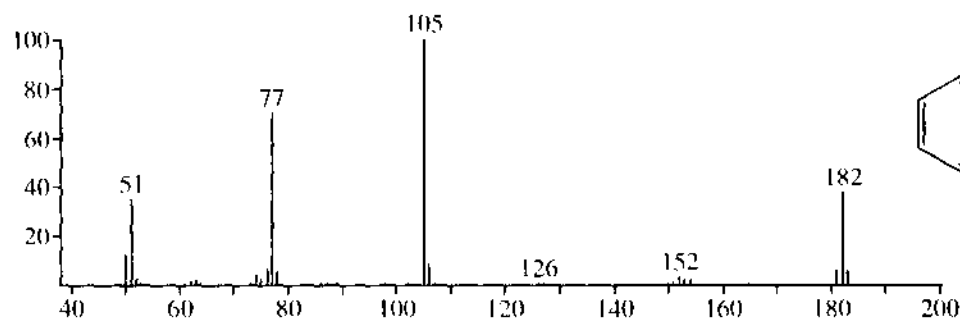
RT: 33.92 AI: 1626 KI: 1627 **Benzophenone**

CAS#: 119-61-9 MF: C₁₃H₁₀O FW: 182 MSD LIB#: 284

CN: benzophenone

Synonyms: diphenyl ketone

Source: Aldrich Chem.: 0.74% *Gardenia jasminoides*, JEOR 8:241(1996); 0.33% *Fagraea berteriana*



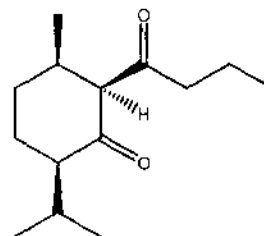
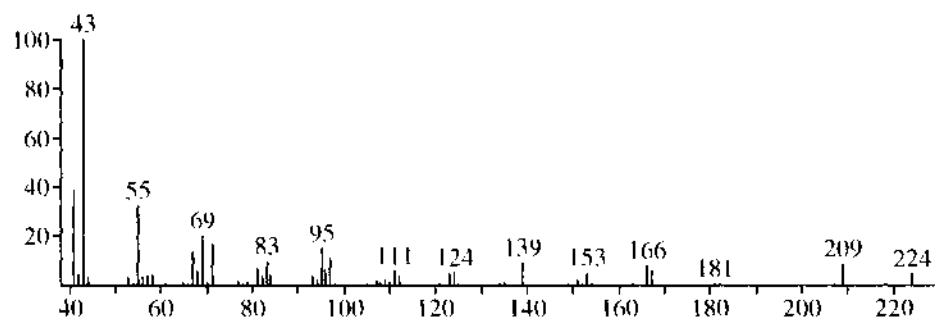
RT: 33.93 AI: 1627 KI: 1628 **Isomenthone <2-(3-oxobutyl)->**

CAS#: 000-00-0 MF: C₁₄H₂₄O₂ FW: 224 MSD LIB#: 508

CN: not assigned

Synonyms: none

Source: *Cupressus bakeri* oil fraction ex Larry Cool



RT: 33.95 AI: 1627 KI: 1628 **Cubenol <1-epi->**

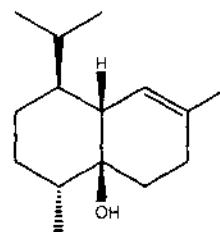
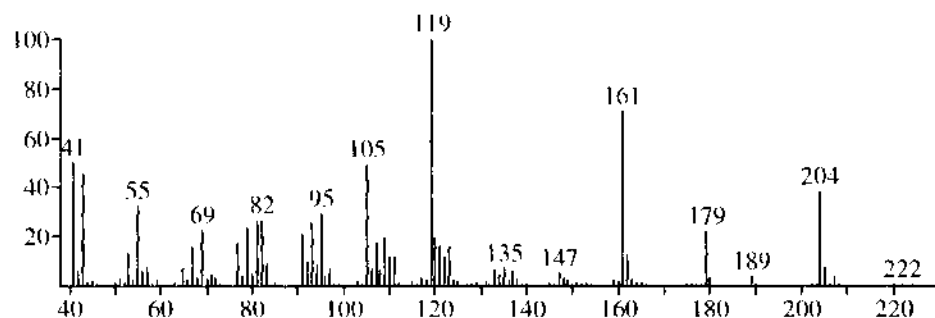
CAS#: 19912-67-5 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 255

CN: 4a(2H)-naphthalenol, 1,3,4,5,6,8a-hexahydro-4,7-dimethyl-1-(1-methylethyl)-, (1S-(1α,4β,4α,8α))-

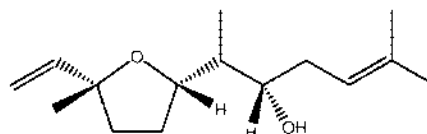
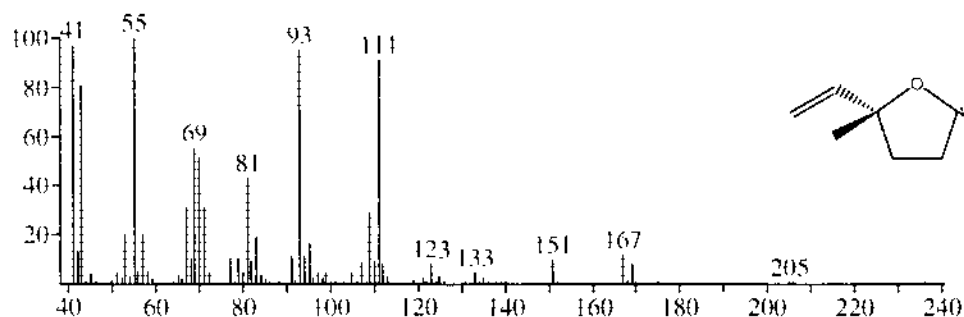
Synonyms: 1β,10βII-Cadin-4-en-1-ol

Source: Ayou oil ex P. Weyerstahl; 14.10% *Artemisia campestris*, FFJ 10:25(1995);

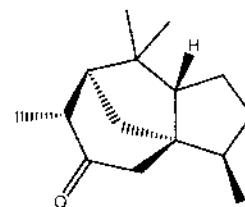
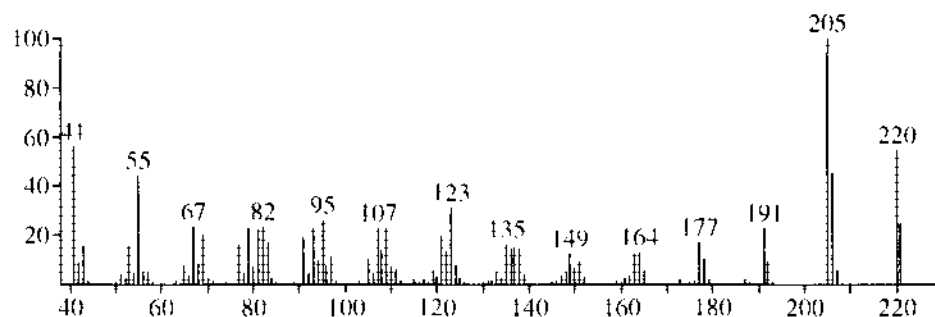
3.73% *Myrica cerifera* (leaf); 3.10% *Sideritis lycia*



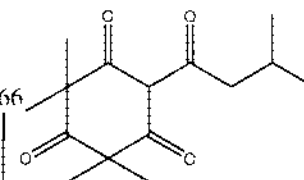
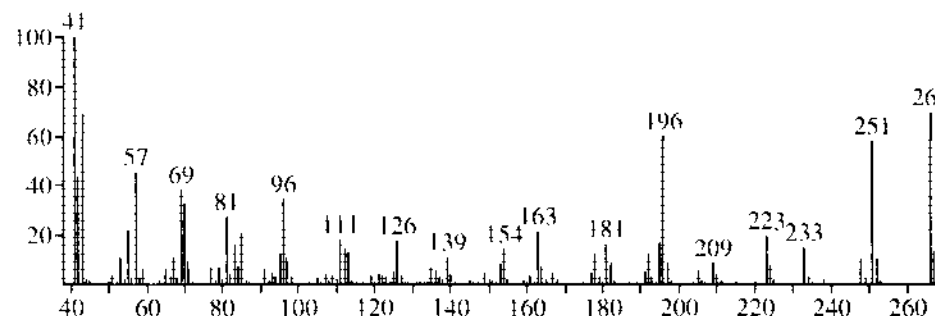
RT: 33.95 AI: 1627 KI: 1628 **Davanol D2 (isomer 2)**
 CAS#: 000-00-0 MF: C₁₅H₂₆O₂ FW: 238 MSD LIB#: 560
 CN: not assigned
 Synonyms: none
 Source: ref. cpd. ex P. Weyerstahl



RT: 34.00 AI: 1628 KI: 1630 **Cedranone <5>**
 CAS#: 13567-40-3 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 399
 CN: 1H-3a,7-methanoazulen-5(4H)-one, hexahydro-3,6,8,8-tetramethyl-,
 (3R-(3a,3aβ,6β,7β,8aα))-
 Synonyms: 8-β-cedran-9-one
 Source: cedrane deriv. ex Joseph-Nathan, J. Natl. Prods. 47:924(1984)



RT: 34.02 AI: 1629 KI: 1630 **Leptospermone**
 CAS#: 567-75-9 MF: C₁₅H₂₂O₄ FW: 266 MSD LIB#: 1053
 CN: 1,3,5-cyclohexanetrione, 2,2,4,4-tetramethyl-6-(3-methyl-1-oxobutyl)-
 Synonyms: none
 Source: Manuka oil ex E. Stahl-Biskup



RT: 34.04 AI: 1629 KI: 1631 **Eremoligenol**

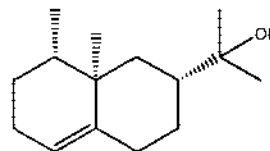
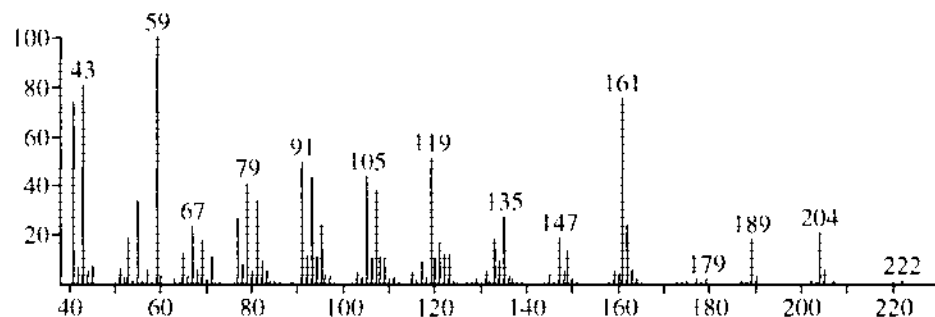
CAS#: 10219-71-3 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1292

CN: 2-naphthalenemethanol, 1,2,3,4,6,7,8,8a-octahydro- $\alpha,\alpha,8,8a$ -tetramethyl-, (2R-(2 $\alpha,8\alpha,8a\alpha$))-

Synonyms: eremophil-1(10)-en-11-ol

Source: *Phoebe* oil ex Peter Weyerstahl; 8.40% *Phoebe porosa*, FFI 9:179(1994);

0.36% *Artemisia moorcroftiana*



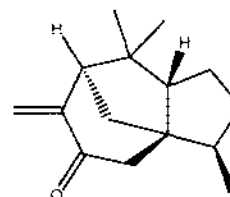
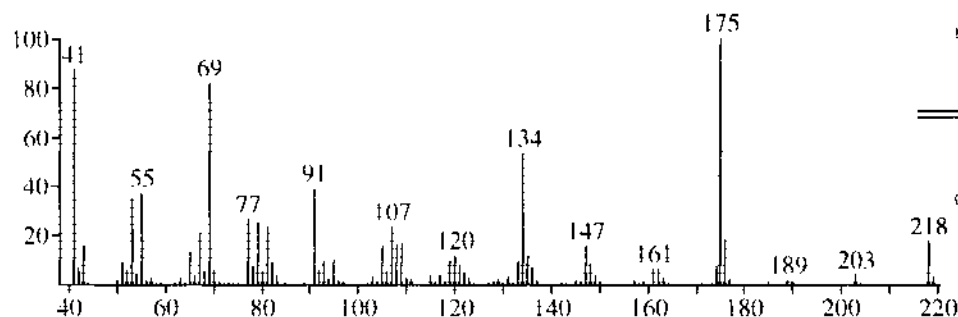
RT: 34.05 AI: 1630 KI: 1631 **Cedren-9-one < β >**

CAS#: 13567-51-6 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 405

CN: 1H-3a,7-methanoazulen-5(4H)-one, hexahydro-3,8,8-trimethyl-6-methylene-, (3R-(3 $\alpha,3\alpha\beta,7\beta,8\alpha\alpha$))-

Synonyms: cedr-8(15)-en-9-one; isocedrenone

Source: ref. cpd. ex Peter Weyerstahl



RT: 34.06 AI: 1630 KI: 1631 **Muurolo-4,10(14)-dien-1- β -ol**

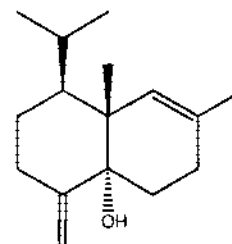
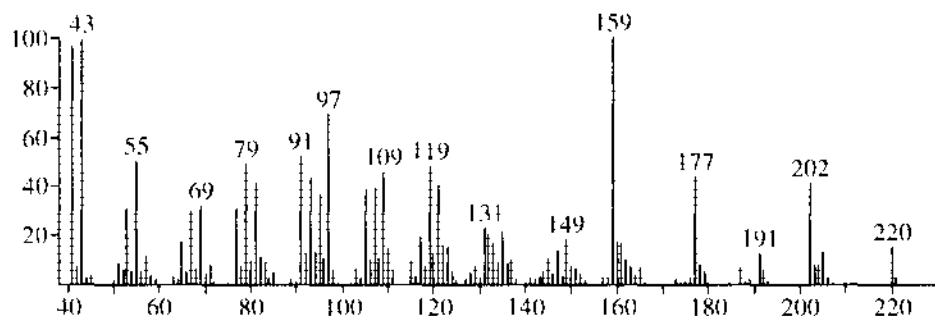
CAS#: 257293-90-6 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1716

CN: 4a(2H)-naphthalenol, 1,3,4,5,6,8a-hexahydro-7-methyl-4-methylene-

1-(1-methylethyl)-, (1S,4aS,8aR)-

Synonyms: none

Source: *Aglaia odorata* oil ex R. Weyerstahl



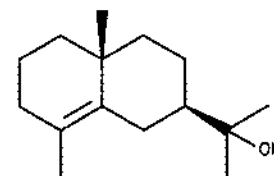
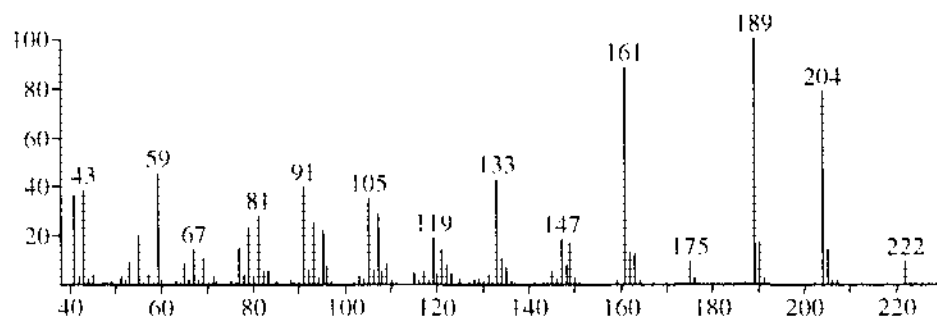
RT: 34.08 AI: 1630 KI: 1632 **Eudesmol** < γ ->

CAS#: 1209-71-8 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 921

CN: 2-naphthalenemethanol, 1,2,3,4,4a,5,6,7-octahydro- $\alpha,\alpha,4a,8$ -tetramethyl-, (2R-cis)-

Synonyms: selinenol; uncinol; eudesm-4-en-11-ol; machilol

Source: *Juniperus monticola* f. *compacta* leaf oil, Adams #2580; 12.31% *Uromyces australis*, 11:11:133(1996); 8.48% *Thuja occidentalis*; 8.28% *Chamaecyparissus obtusa* (leaf)



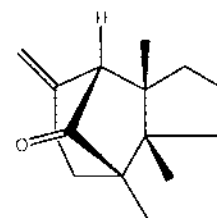
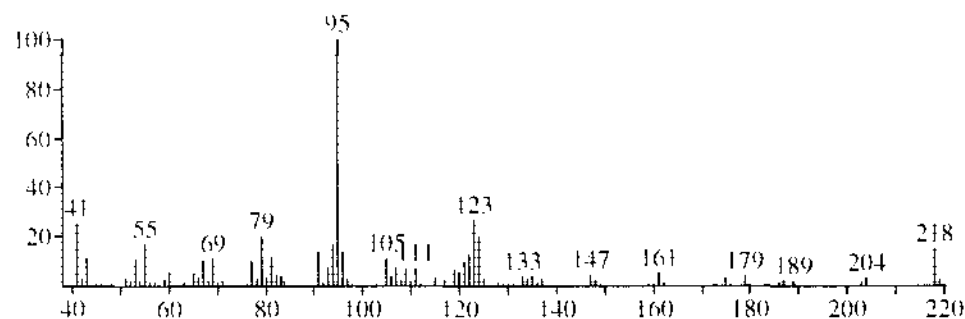
RT: 34.10 AI: 1631 KI: 1632 **Gymnonitrone**

CAS#: 39863-74-6 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 1876

CN: 4,8-methanoazulen-9-one, decahydro-3a,4,8a-trimethyl-7-methylene-, (3aS,4S,8R,8aS)-

Synonyms: none

Source: *Buzania trilobata* ex. W. Koenig



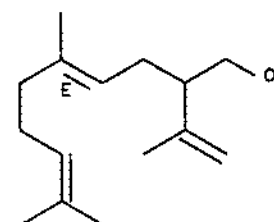
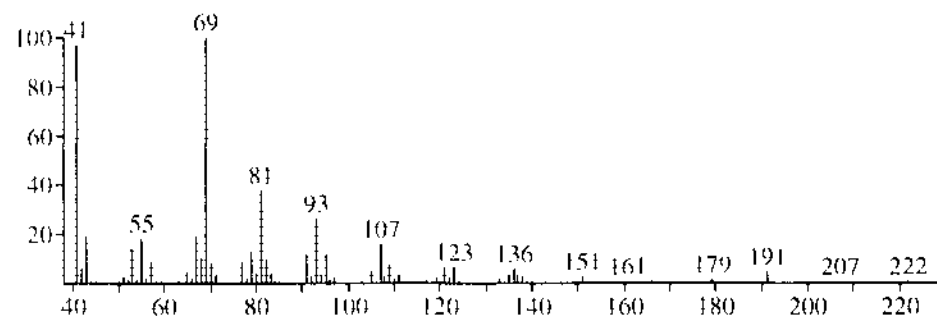
RT: 34.10 AI: 1631 KI: 1632 **Sesquilandulol** <(E)->

CAS#: 120707-27-9 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1412

CN: 4,8-decadien-1-ol, 5,9-dimethyl-2-(1-methylethenyl)-, (E)-

Synonyms: none

Source: ref. cpd. ex Dragoco ex G Schmaus



RT: 34.13 AI: 1632 KI: 1633 **Acorenol < α ->**

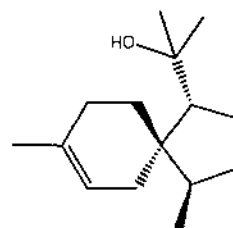
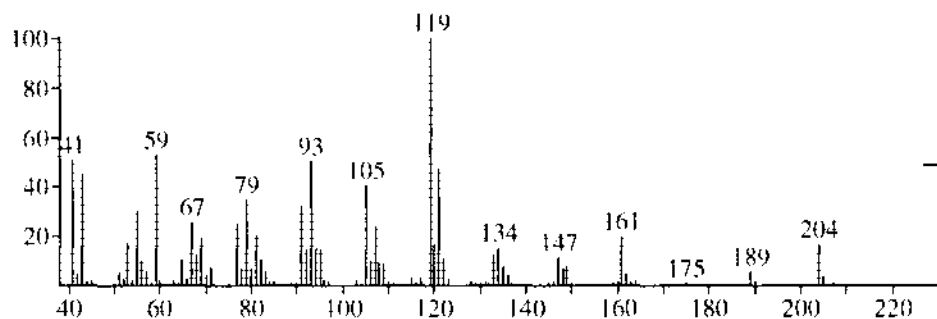
CAS#: 28296-85-7 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 15

CN: spiro(4.5)dec-7-ene-1-methanol, $\alpha,\alpha,4,8$ -tetramethyl,[1R-(1 α ,4 β ,5 α)]-

Synonyms: none

Source: *Cupressus bakeri* leaf oil ex Larry Cool; 0.70% *Amyris balsamifera*.

Constituents inédits de l'essence du Santal Amyris, B. Corbier, et al.,
in: Proceedings "La Chimie des Terpenes," France(April 24/1986)



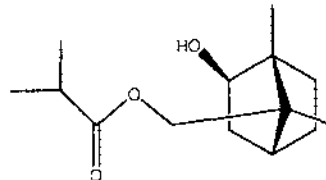
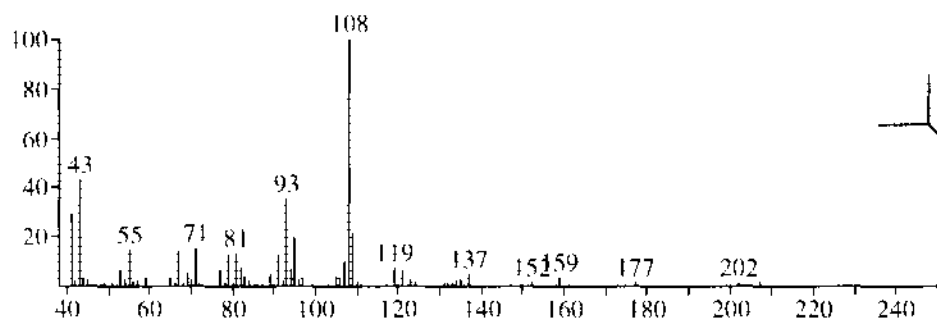
RT: 34.14 AI: 1632 KI: 1633 **Isoborneol <8-isobutyryloxy->**

CAS#: 107802-69-7 MF: C₁₄H₂₄O₃ FW: 240 MSD LIB#: 1448

CN: propanoic acid, 2-methyl-(2-hydroxy-1,7-dimethylbicyclo(2.2.1)hept-7-yl)
methyl ester, (1R-(exo, syn))-

Synonyms: none

Source: *Strobilanthus auriculatus* oil ex P. Weyerstahl



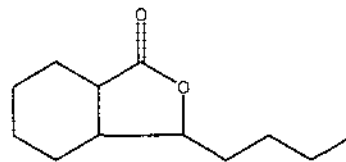
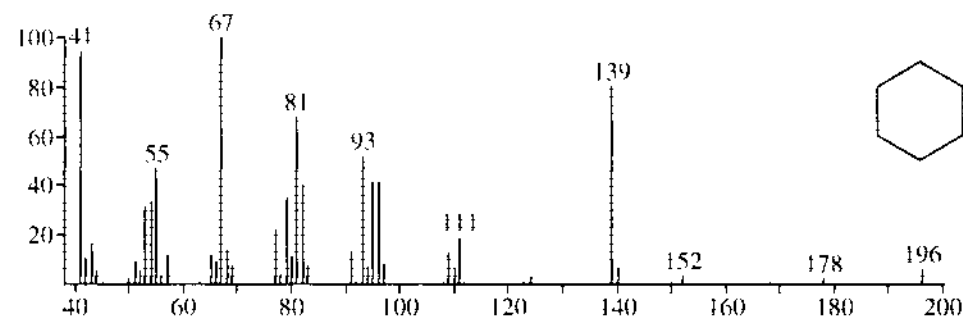
RT: 34.15 AI: 1632 KI: 1634 **Phthalide <3-butylhexahydro->**

CAS#: 3553-34-2 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 1582

CN: phthalide, 3-butylhexahydro-

Synonyms: hexahydro-3-butylphthalide

Source: *Lomatium dissectum* oil ex Vasu Dev



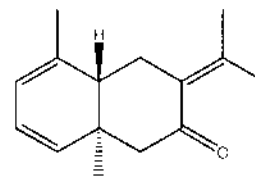
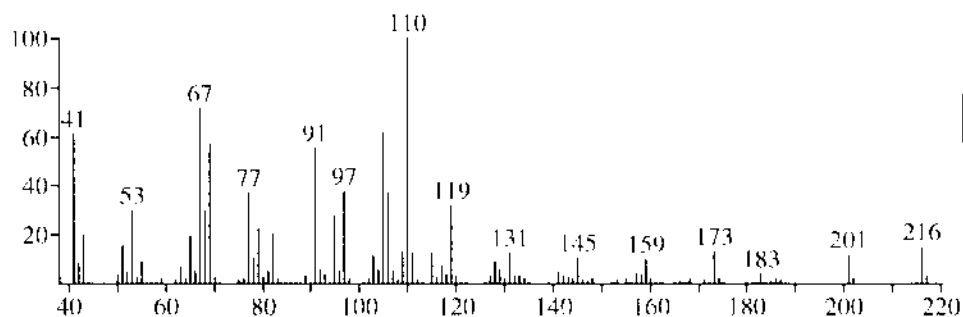
RT: 34.15 AI: 1632 KI: 1634 **Selina-1,3,7(11)-trien-8-one**

CAS#: 179914-19-3 MF: C₁₅H₂₀O FW: 216 MSD LIB#: 699

CN: 2(1H)-naphthalenone, 3,4,4a,8a-tetrahydro-5,8a-dimethyl-3-(1-methylethylidene)-, trans-

Synonyms: none

Source: *Eugenia uniflora* oil ex Seline Maia de Moraes, Brazil



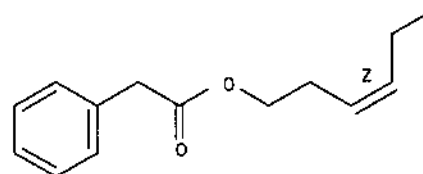
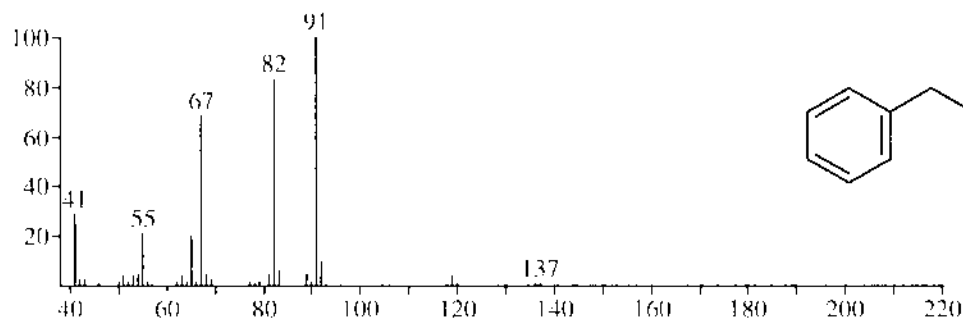
RT: 34.16 AI: 1632 KI: 1634 **Hexenyl phenyl acetate <(3Z)->**

CAS#: 42436-07-7 MF: C₁₄H₁₈O₂ FW: 218 MSD LIB#: 814

CN: benzenecetic acid, 3-hexenyl ester, (Z)-

Synonyms: cis-3-hexenyl phenylacetate

Source: ref. cpd. ex Art Tucker; 0.05% *Tilia cordata*, FFJ 1:57(1986)



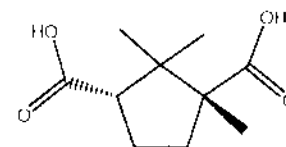
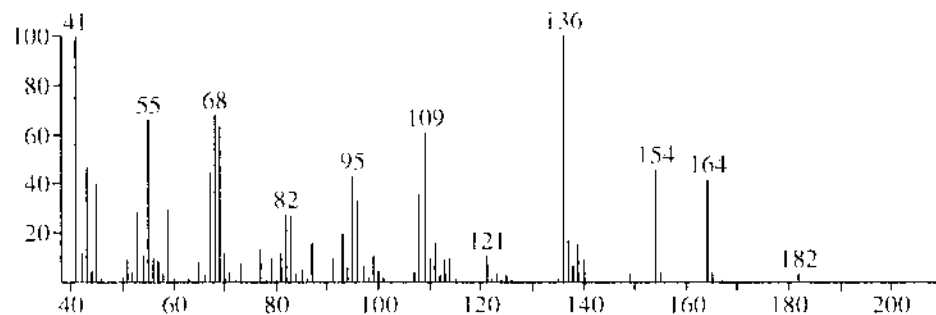
RT: 34.20 AI: 1634 KI: 1635 **Camphoric acid**

CAS#: 124-83-4 MF: C₁₀H₁₆O₄ FW: 200 MSD LIB#: 1747

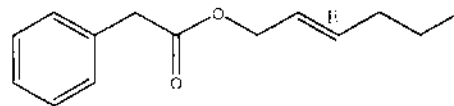
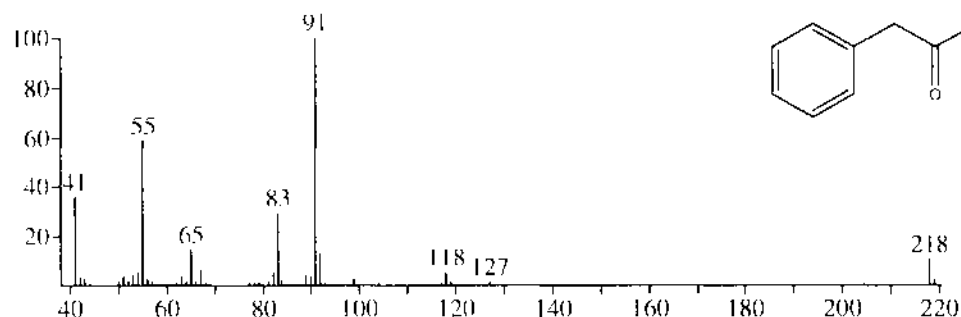
CN: 1,3-cyclopentanedicarboxylic acid, 1,2,2-trimethyl-, (1R,3S)-

Synonyms: dextrocamphoric acid

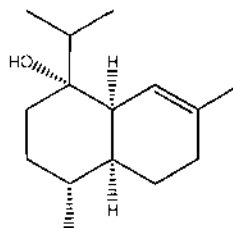
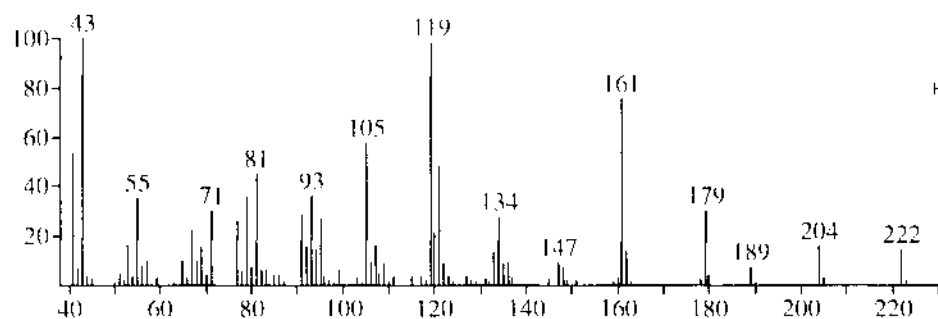
Source: ref. cpd. ex E. von Rudloff



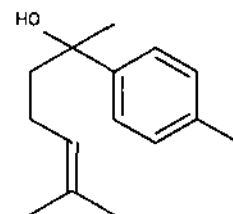
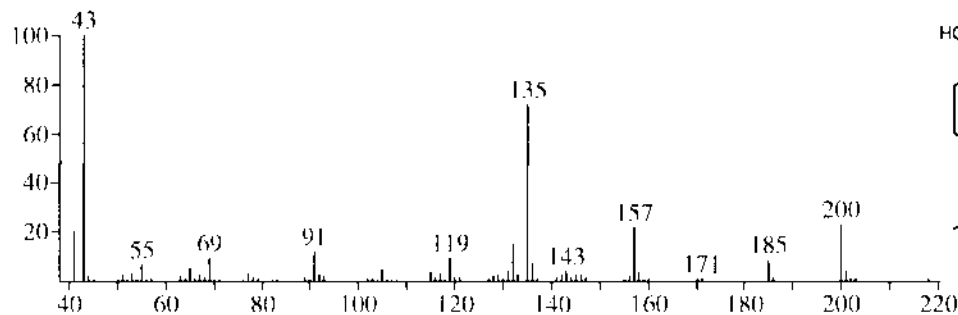
RT: 34.24 AI: 1635 KI: 1636 **Hexenyl phenyl acetate <(2E)->**
 CAS#: 68133-78-8 MF: C₁₄H₁₈O₂ FW: 218 MSD LIB#: 2049
 CN: benzenecetic acid, (2E)-2-hexenyl ester
 Synonyms: none
 Source: Bedoukian Res.



RT: 34.25 AI: 1635 KI: 1636 **Cadin-4-en-7-ol <cis->**
 CAS#: 217650-27-6 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 703
 CN: 1-naphthalenol, 1,2,3,4,4a,5,6,8a-octahydro-4,7-dimethyl-1-(1-methylethyl)-, (1R,4R,4aS,8aR)-
 Synonyms: anorph-4-en-7-ol
 Source: *Eupatorium coelestium* ex J. Casanova



RT: 34.28 AI: 1636 KI: 1637 **Gossonorol**
 CAS#: 92691-77-5 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 748
 CN: benzenemethanol, α,4-dimethyl-α-(4-methyl-3-pentenyl)-
 Synonyms: none
 Source: gossonorol std. ex Gary Elzen, USDA



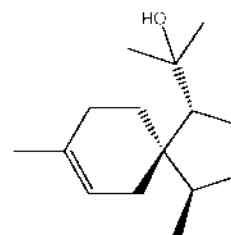
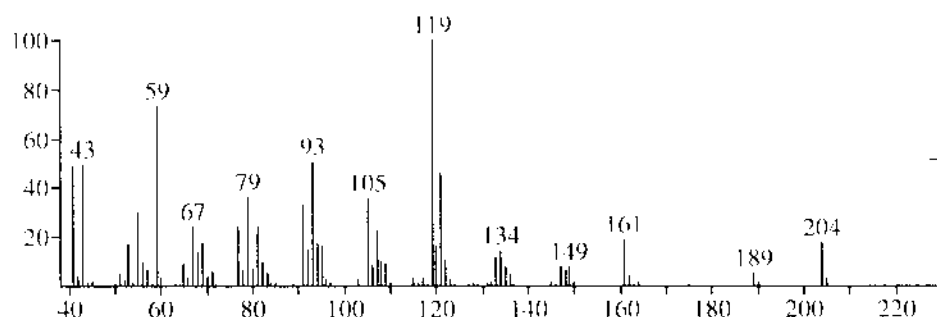
RT: 34.30 AI: 1636 KI: 1637 **Acorenol <β>**

CAS#: 28400-11-5 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 16

CN: spiro(4.5)dec-7-ene-1-methanol, α,α,4,8 tetramethyl-, [1R-(1α,4β,5β)]-

Synonyms: none

Source: *Cupressus bakeri* leaf oil ex Larry Cool



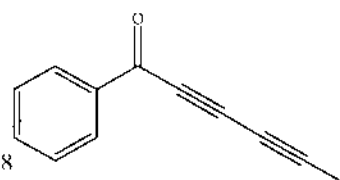
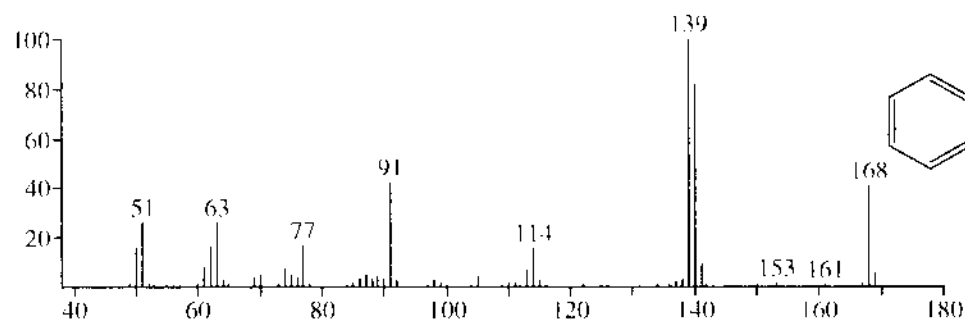
RT: 34.35 AI: 1637 KI: 1639 **Capillin**

CAS#: 495-74-9 MF: C₁₂H₈O FW: 168 MSD LIB#: 1735

CN: 2,4-hexadiyn-1-one, 1-phenyl-

Synonyms: hexadiynophenone <2,4>

Source: *Santolina rosmarinifolia* ex Jesus P. Paul



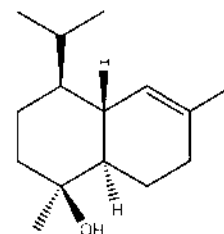
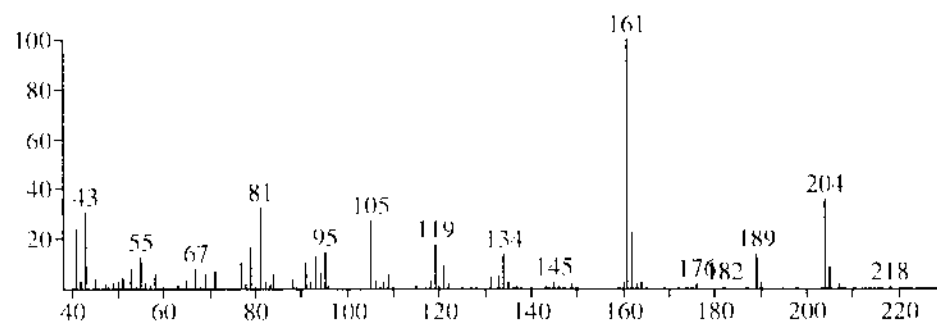
RT: 34.38 AI: 1638 KI: 1640 **Cadinol <epi-α>**

CAS#: 5937-11-1 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1323

CN: 1-naththalenol, 1,2,3,4,4a,7,8,8a octahydro-1,6-dimethyl-4-(1-methylethyl)-, (1S-(1α,4α,4aα,8aβ))-

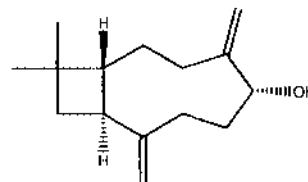
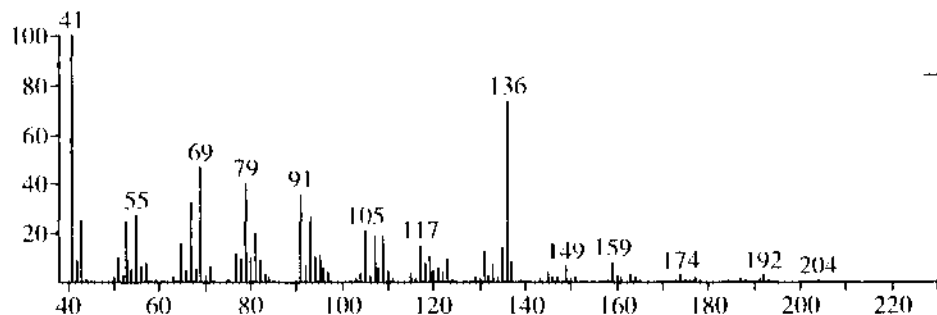
Synonyms: cedrelanol; tau-cadinol

Source: *Pinus sylvestris* leaf oil ex. A. Michet [Chalchat, Garry & Michet, Planta Med. (3) 285 (1985)]

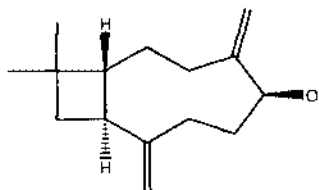
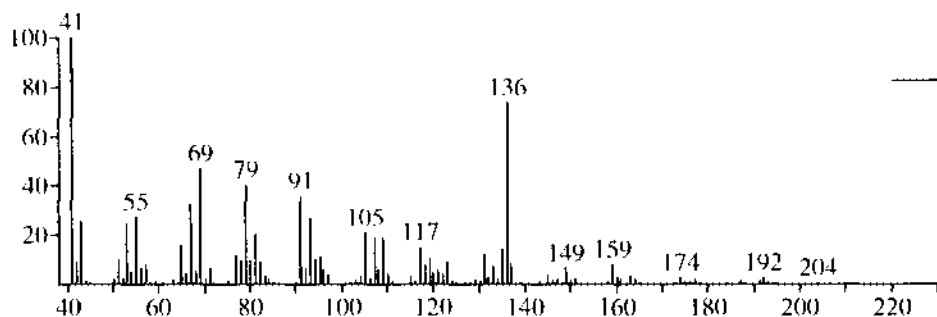


RT: 34.40 Al: 1639 Kl: 1640 Caryophylla-4(12),8(13)-dien-5 α -olCAS#: 19431-79-9 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 13

CN: bicyclo(7.2.0)undecan-4-ol, 10,10-dimethyl-2,6-bis(methylene)-, (1S,5R,9R)-

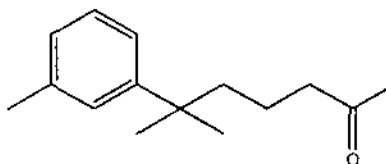
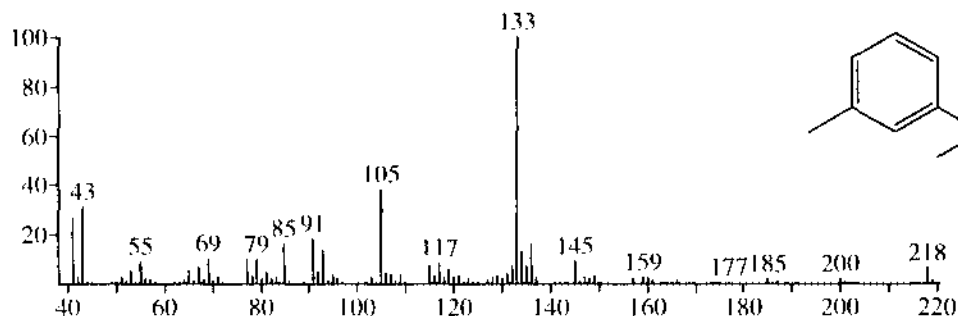
Synonyms: Caryophylla-4(14),8(15)-dien-5 α -ol in Weyerstahl et al. FEJ 12:71-78(1997)Source: *Achillea eriophora* ex Peter Weyerstahl**RT: 34.40 Al: 1639 Kl: 1640 Caryophylla-4(12),8(13)-dien-5 β -ol**CAS#: 19431-80-2 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 14

CN: bicyclo(7.2.0)undecan-4-ol, 10,10-dimethyl-2,6-bis(methylene)-, (1S,5S,9R)-

Synonyms: Caryophylla-4(14),8(15)-dien-5 β -ol in Weyerstahl et al. FEJ 12:71(1997);Source: *Achillea eriophora* ex P. Weyerstahl; 2.00% *Santolina pectina*, FEJ 3:37(1988);1.50% *Santolina semidentata*; 0.70% *Santolina canescens***RT: 34.41 Al: 1639 Kl: 1640 Heptan-2-one <6-methyl-6-(3-methylphenyl)->**CAS#: 72247-00-8 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 245

CN: 2-heptanone, 6-methyl-6-(3-methylphenyl)-

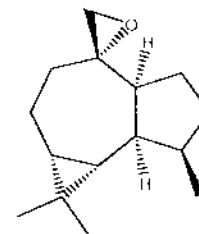
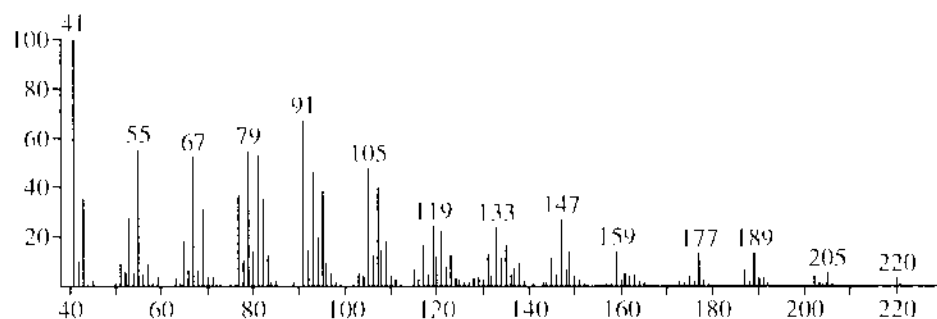
Synonyms: none

Source: *Artemisia vestita* oil ex P. Weyerstahl

RT: 34.42 AI: 1639 KI: 1641 **Aromadendrene epoxide <allo->**CAS#: 85760-81-2 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 107

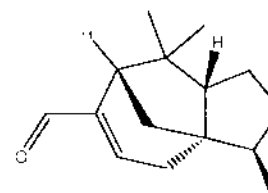
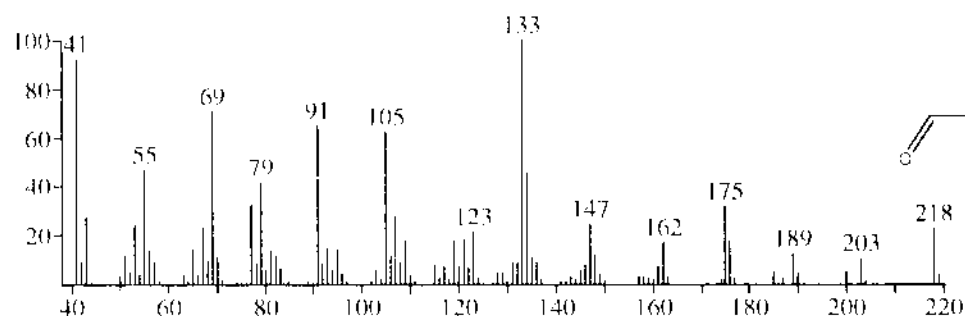
CN: spiro(4H-cyclopropyl)azulene-4,2'-oxirane), 1,1a,2,3,4a,5,6,7,7a,7b-decahydro-1,1,7-trimethyl-, (1aR,2'S,4aS,7R,7aS,7bS)-

Synonyms: alloaromadendrene epoxide

Source: Ref. epd. ex Peter Weyerstahl; 23.37% *Eucalyptus globulus*, Tianran ChanwuYanjiao 2:51(1990); 19.04% *Santolina chamaecyparissus*; 18.95% *Salvia officinalis*RT: 34.42 AI: 1639 KI: 1641 **Cedrenal <1,7-diepi-α->**CAS#: 288249-27-4 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 1740

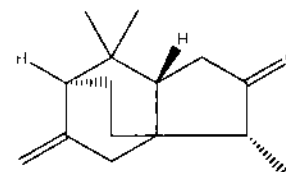
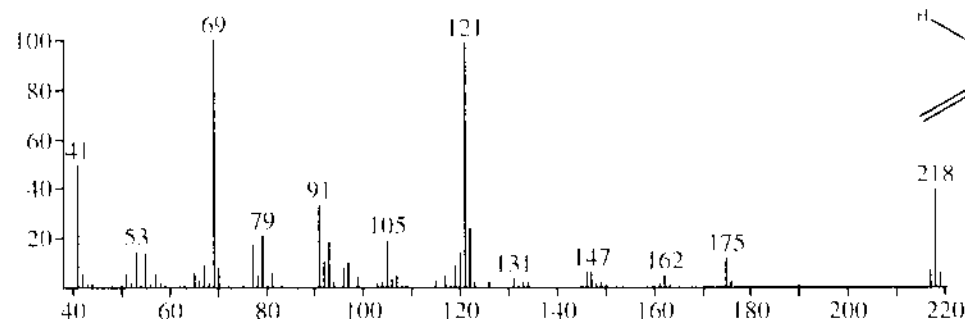
CN: 1H-3a,7-methanoazulene-6-carboxaldehyde, 2,3,4,7,8,8a-hexahydro-3,8,8-trimethyl-, (3R,3aR,7S,8aS)-

Synonyms: none

Source: *Juniperus thurifera* wood oil ex Armando LaraRT: 34.42 AI: 1639 KI: 1641 **Duprezianen-3-one <2-epi-β->**CAS#: 288252-79-9 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 1738

CN: 3a,6-ethano-3aH-inden-2(3H)-one, hexahydro-3,7,7-trimethyl-5-methylene-, (3R,3aS,6S,7aS)-

Synonyms: none

Source: *Juniperus thurifera* wood oil ex Armando Lara

RT: 34.45 AI: 1640 KI: 1641 **Hinesol**

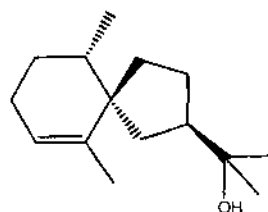
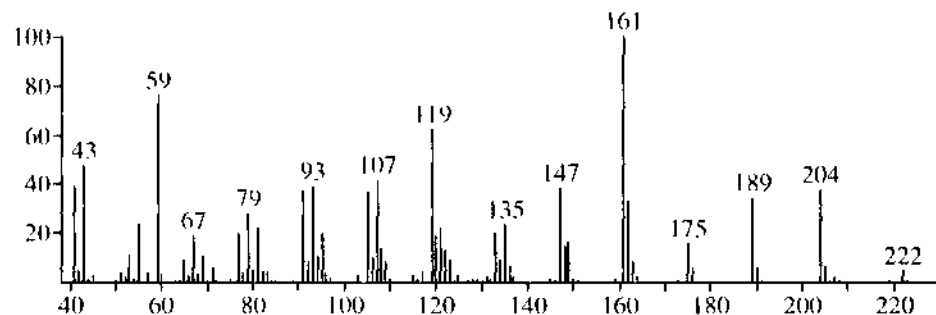
CAS#: 23811-08-7 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 818

CN: spiro(4.5)dec-6-ene-2-methanol, $\alpha,\alpha,6,10$ -tetramethyl-, (2R-(2 α ,5 α , (S*)))-

Synonyms: none

Source: Alfred Bader Chem. ex E. von Rudloff: 10.00% *Atractylodes lancea*,

Parfum. Kosmet. 63:237(1982); 1.90% *Phoebe porosa*



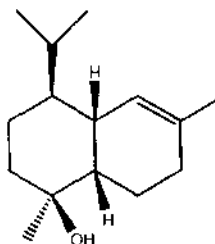
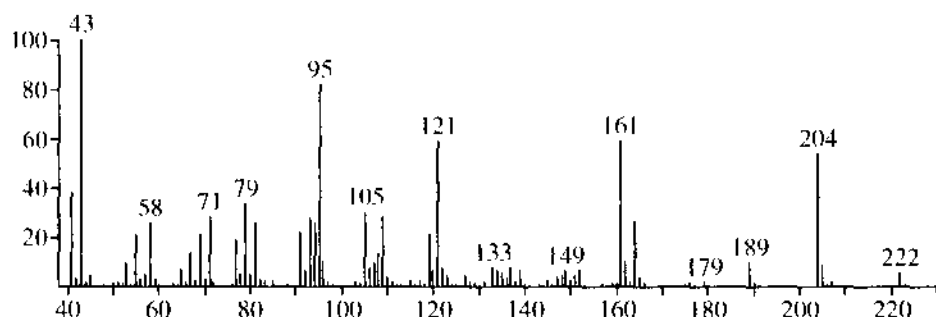
RT: 34.46 AI: 1640 KI: 1642 **Muurolol <epi- α >**

CAS#: 19912-62-0 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1324

CN: 1-naphthalenol, 1,2,3,4,4a,7,8,8a-octahydro-1,6-dimethyl-4-(1-methylethyl)-, (1S-(1 α ,4 α ,4aa,8aa))-

Synonyms: tau-muurolol

Source: ref. cpd. (ex *Pinus sylvestris*) ex A. Michel



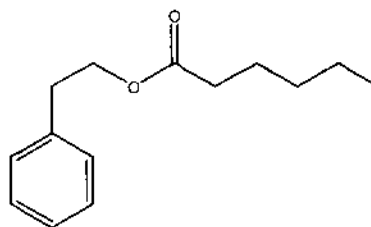
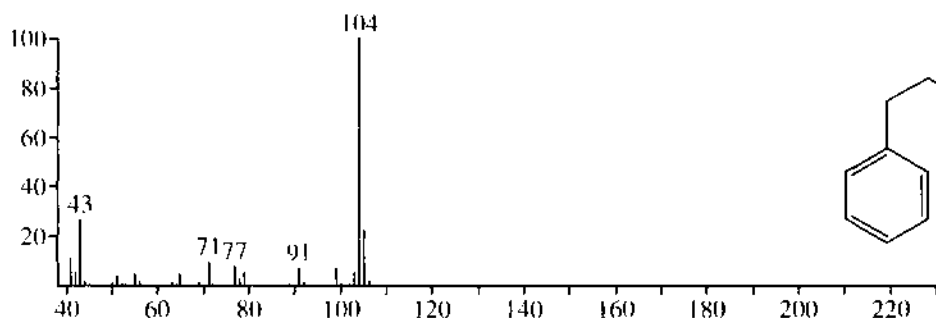
RT: 34.46 AI: 1640 KI: 1642 **Phenyl ethyl hexanoate**

CAS#: 6290-37-5 MF: C₁₄H₂₀O₂ FW: 220 MSD LIB#: 1286

CN: hexanoic acid, 2-phenylethyl ester

Synonyms: 2-phenylethyl caproate

Source: Aldrich Chem. ex Art Tucker



RT: 34.47 AI: 1641 KI: 1642 **Daucol**

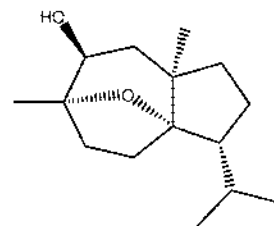
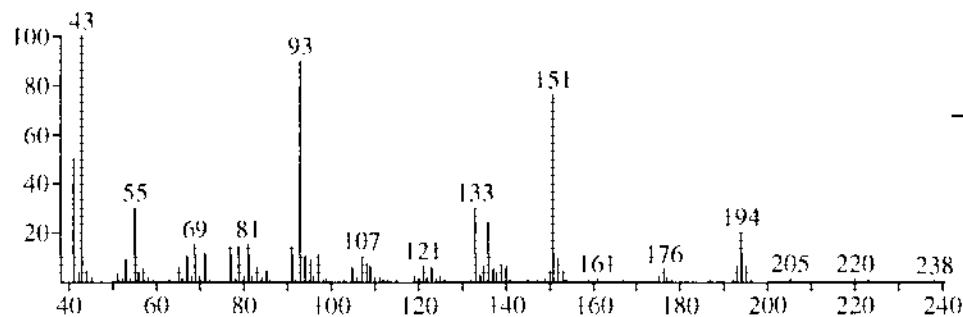
CAS#: 887-08-1 MF: C₁₅H₂₆O₂ FW: 238 MSD LIB#: 364

CN: 1H-3a,6-epoxyazulene-7-ol, octahydro-6,8a-dimethyl-3-(1-methylethyl)-
(3R-(3 α ,3 α ,6 α ,7 β ,8 α))-

Synonyms: none

Source: Carrot seed oil ex A. Chainteau, Nestle; 9.60% *Daucus carota* (Egypt).

IFI 4:225(1989); 5.77% *Daucus carota* (Pakistan); 1.35% *Daucus carota* (Germany)



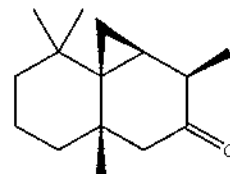
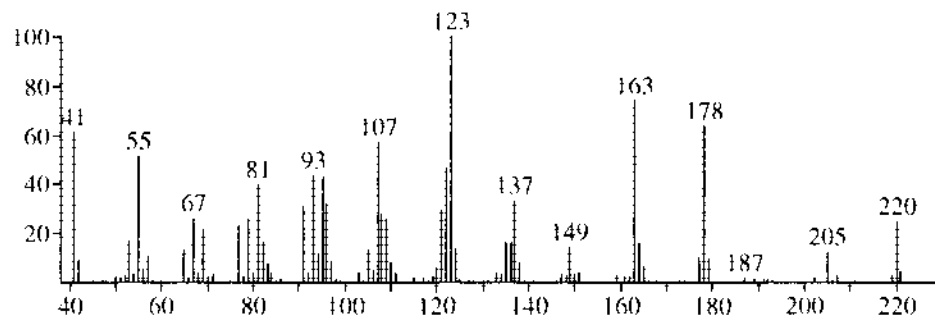
RT: 34.48 AI: 1641 KI: 1642 **Thujopsanone <3-iso->**

CAS#: 25966-81-8 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 565

CN: cyclopropa(d)naphthalen-3(1H)-one, octahydro-2,4a,8,8-tetramethyl-, (1aS-(1 $\alpha\alpha$,2 β ,4 $\alpha\beta$,8 α R*))-

Synonyms: 4-iso-thujosanone (farnesene numbering)

Source: *Widdringtonia whytei* wood oil ex AB Wood



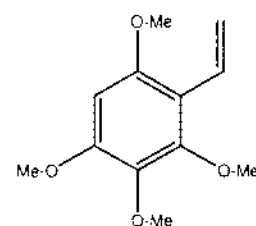
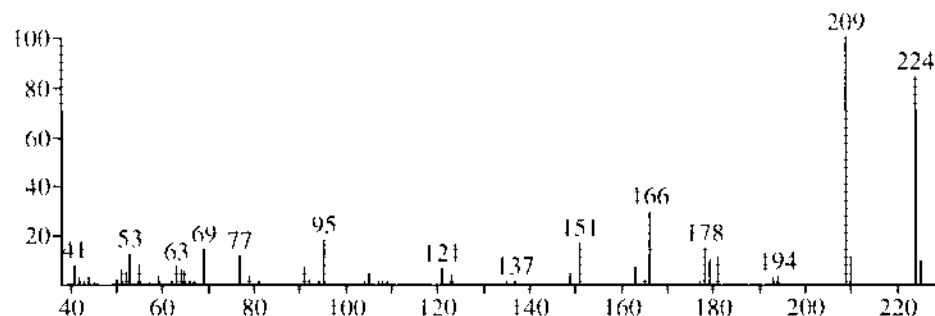
RT: 34.53 AI: 1642 KI: 1644 **Styrene <2,3,4,6-tetramethoxy->**

CAS#: 48153-74-8 MF: C₁₂H₁₆O₄ FW: 224 MSD LIB#: 1836

CN: benzene, 2-ethenyl-1,3,4,5-tetramethoxy-

Synonyms: none

Source: *Zieria southwellii* oil ex Ian Southwell



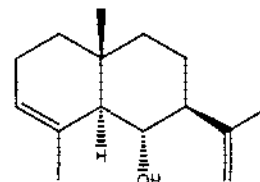
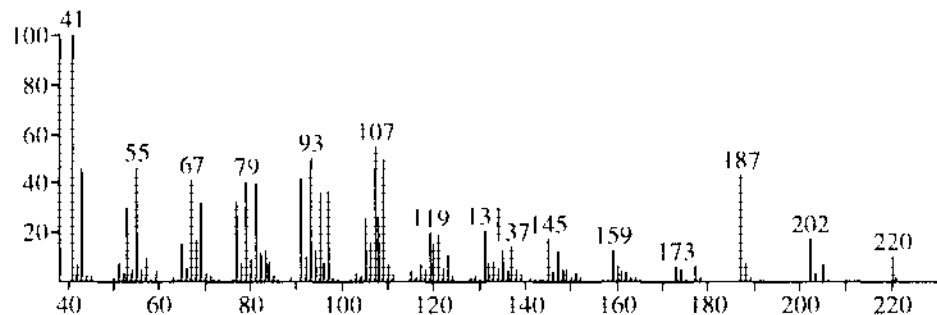
RT: 34.54 AI: 1642 KI: 1644 **Selina-3,11-dien-6- α -ol**

CAS#: 38142-38-0 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1404

CN: 1-naphthalenol, 1,2,3,4,4a,5,6,8a-octahydro-4a,8-dimethyl-2-(1-methylethenyl)-, (1 α ,2 β ,4 α ,8 α)-

Synonyms: eudesma-3,11-dien-6- α -ol

Source: ref. cpd. ex P. Weyerstahl



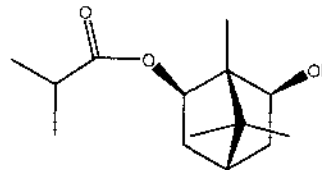
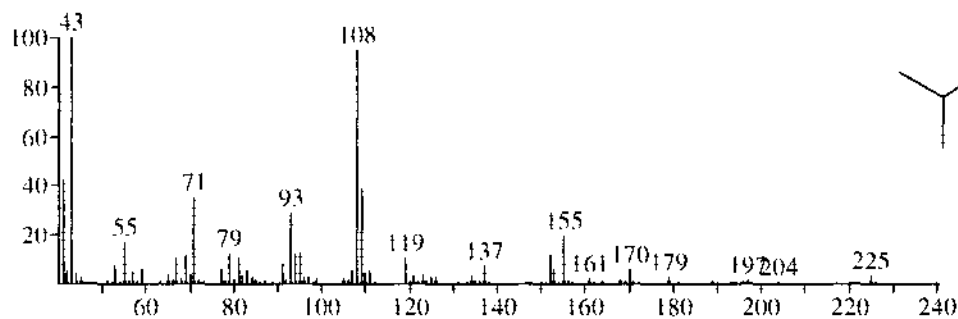
RT: 34.56 AI: 1643 KI: 1644 **Isobornyl isobutanoate <6-hydroxy->**

CAS#: 107783-32-4 MF: C₁₄H₂₄O₃ FW: 240 MSD LIB#: 1449

CN: propanoic acid, 2-methyl-, 6-hydroxy-1,7,7-trimethylbicyclo(2.2.1)hept-2-yl ester, (1S-(exo,exo))-

Synonyms: isoborneol isobutyrate<6-hydroxy->

Source: *Strobilanthes auriculatus* oil ex P. Weyerstahl



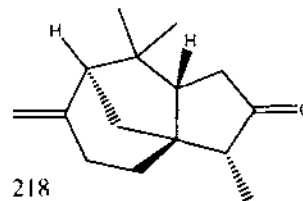
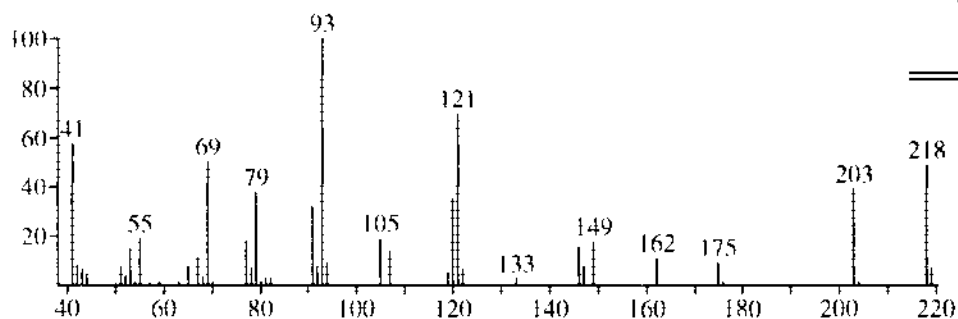
RT: 34.58 AI: 1643 KI: 1645 **Cedren-3-one <2-epi- β ->**

CAS#: 288249-26-3 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 1741

CN: 1H-3a,7-methanoazulen-2(3H)-one, hexahydro-3,8,8-trimethyl-6-methylene-, (3R,3aR,7S,8aS)-

Synonyms: none

Source: *Juniperus thurifera* wood oil ex Armando Lara



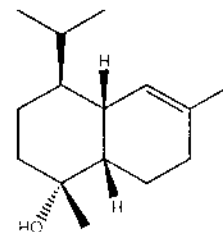
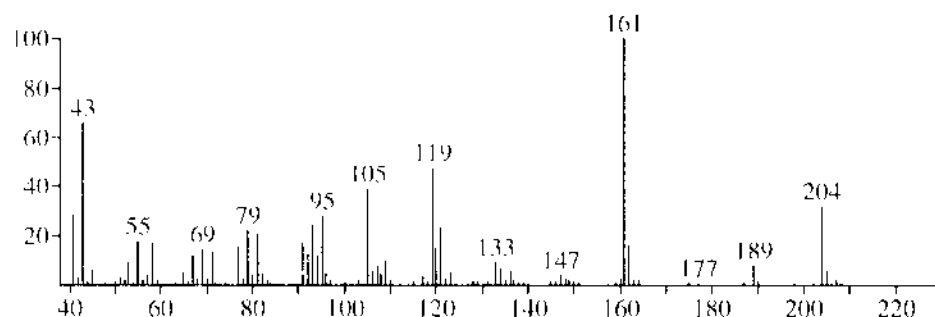
RT: 34.61 AI: 1644 KI: 1646 **Muuzolol α- (=Torreyol)**

CAS#: 19435-97-3 MI: C₁₅H₂₆O FW: 222 MSD LIB#: 1321

CN: 1-naphthalenol, 1,2,3,4,4a,7,8,8a-octahydro-1,6-dimethyl-4-(1-methylethyl)-, (1R,4S,4aR,8aS)-

Synonyms: torreyol; cadinol, δ -; cedreanol; amorphan-3-en-9-ol;cadin-4-en-10-ol, 1- β -

Source: *Pinus sylvestris* oil ex A. Michel



RT: 34.63 AI: 1645 KI: 1646 **Cubenol**

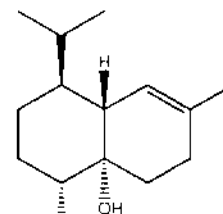
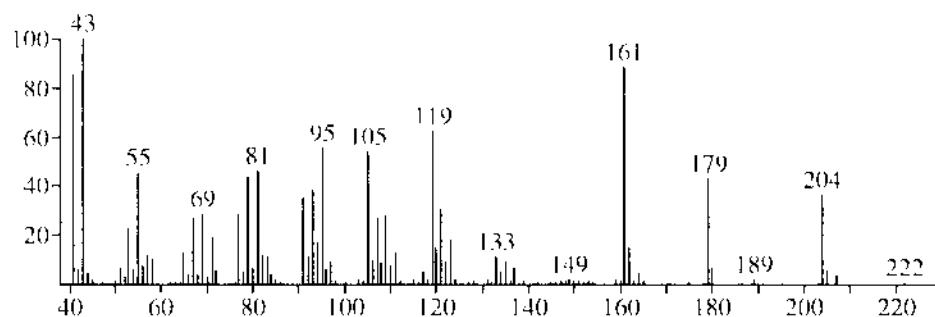
CAS#: 21284-22-0 MI: C₁₅H₂₆O FW: 222 MSD LIB#: 501

CN: 4a(2H)-naphthalenol, 1,3,4,5,6,8a-hexahydro-4,5-dimethyl-1-(1-methylethyl)-, (1S-(1 α ,4 β ,4a β ,8a α))-

Synonyms: 10- β -cadin-4-en-1-ol

Source: *Juniperus monticola* f. *compacta* leaf oil, RP Adams #2580; 6.00% *Satureja gilliesii*.

JEOR 8:183 (1996); 4.10% *Daniellia oliveri*; 2.67% *Ocimum basilicum*



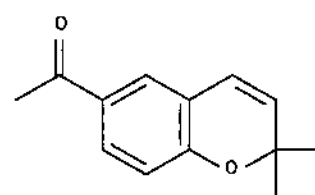
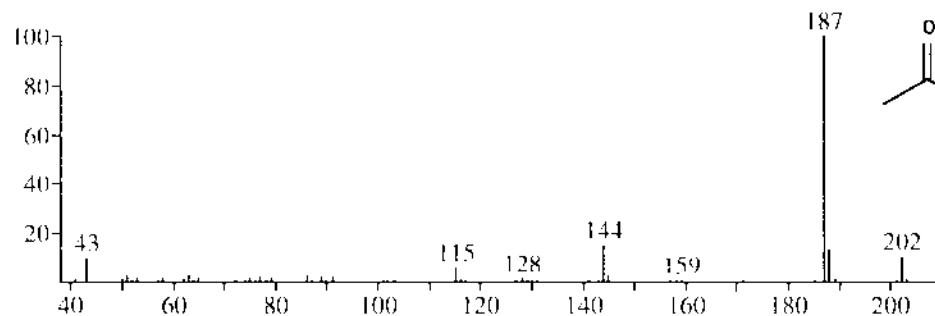
RT: 34.68 AI: 1646 KI: 1647 **Desmethoxy enecalin**

CAS#: 19013-07-1 MI: C₁₃H₁₄O₂ FW: 202 MSD LIB#: 774

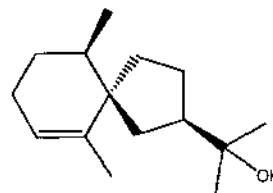
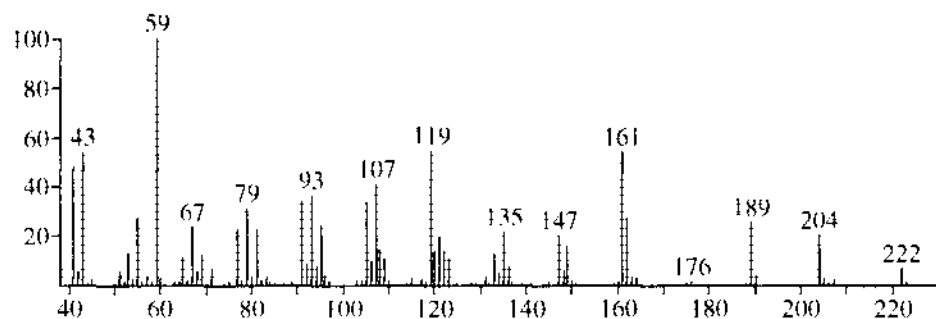
CN: ethanone, 1-(2,2-dimethyl-2H-1-benzopyran-6-yl)-

Synonyms: 6-acetyl-2,2-dimethylchromene

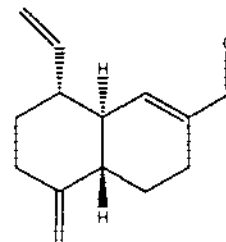
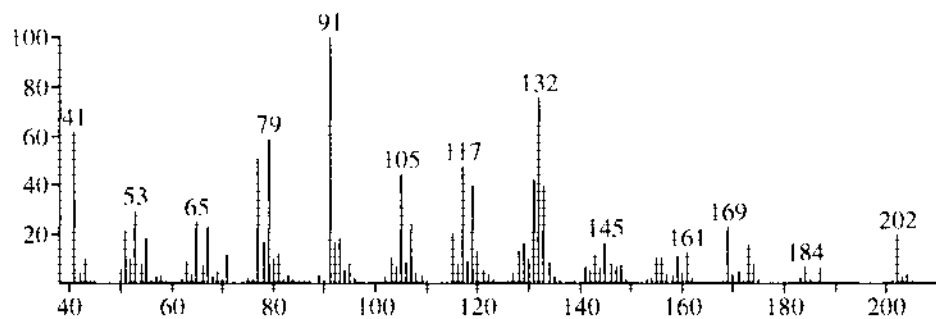
Source: *Hemizonia fitchii* leaves, RP Adams #3383



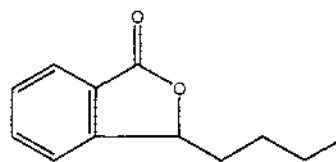
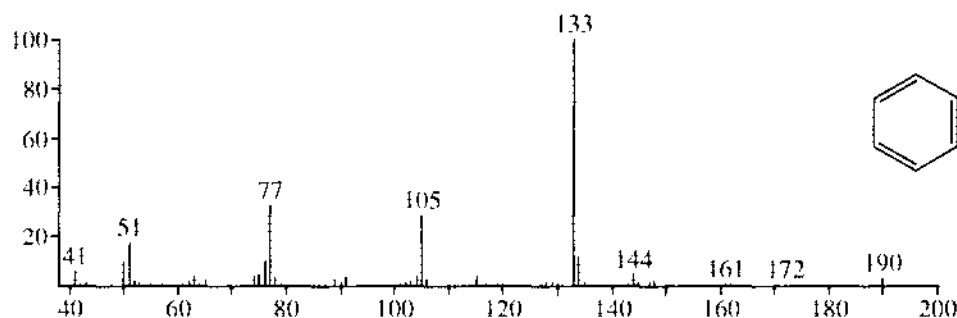
RT: 34.69 AI: 1646 KI: 1648 **Agarospirol**
 CAS#: 1460-73-7 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 544
 CN: spiro[4.5]dec-6-ene-2-methanol, $\alpha,\alpha,6,10$ -tetramethyl-(2R,5R,10R-)
 Synonyms: none
 Source: *Cymbopogon distans* ex Vasu Dev; 4.70% *Aquilaria agallocha*,
 Phytochem. 22:2066(1984); 2.20% *Phoebe prosa*; 1.94% *Psidium viscosa*



RT: 34.71 AI: 1647 KI: 1648 **Khusilal**
 CAS#: 2221-68-3 MF: C₁₄H₁₈O FW: 202 MSD LIB#: 1725
 CN: 2-naphthalenecarboxaldehyde, 8-ethenyl-3,4,4a,5,6,7,8,8a-octahydro-5-methylene-, (4aS, 8R, 8aS)-
 Synonyms: none
 Source: vetiver cv. Greenfield root oil ex Hugh Popenoe, FL



RT: 34.72 AI: 1647 KI: 1648 **Butyl phthalide <3>**
 CAS#: 6066-49-5 MF: C₁₂H₁₄O₂ FW: 190 MSD LIB#: 1585
 CN: 1(3H)-isobenzofuranone, 3-butyl-
 Synonyms: 3-butylphthalide
 Source: *Lomatium dissectum* ex Vasu Dev



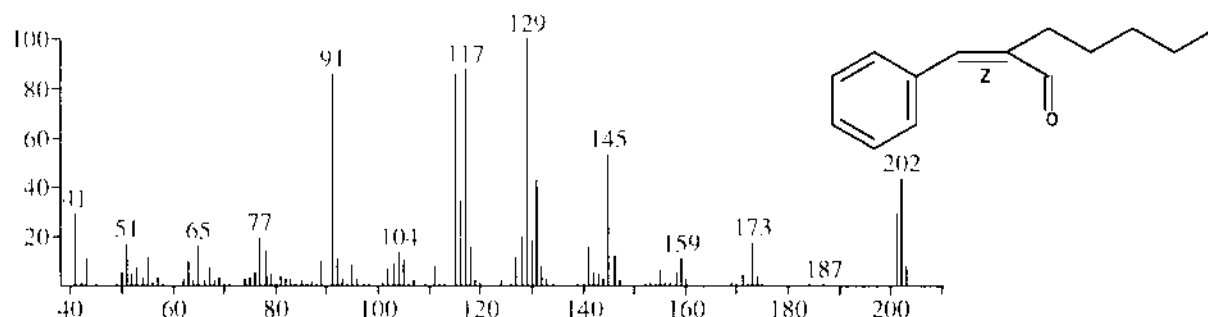
RT: 34.73 AI: 1647 KI: 1649 **Anyl cinnamaldehyde <(Z)->**

CAS#: 101365-33-7 MF: C₁₄H₁₈O FW: 202 MSD LIB#: 129

CN: heptanal, 2-(phenylmethylene)-

Synonyms: jasmal; flomine; jasminaldehyde

Source: Bedoukian Res. ex Art Tucker



RT: 34.74 AI: 1648 KI: 1649 **Methyl jasmonate <(Z)->**

CAS#: 1211-29-6 MF: C₁₃H₂₀O₃ FW: 224 MSD LIB#: 1101

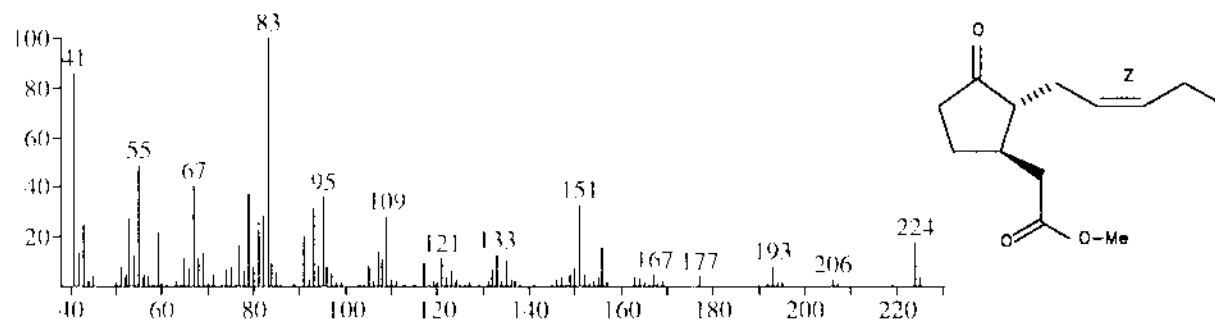
CN: cyclopentanecarboxylic acid, 3-oxo-2-(2-pentenyl)-, methyl ester, (1R-(1 α ,2 β)-(Z)-)

Synonyms: none

Source: ref. epd. ex K. Moriai, Japan; 33.71% *Chloranthus spicatus*, p. 43. in:

Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong (1993);

17.16% *Hedychium coronarium*; 1.00% *Boronia megastigma*



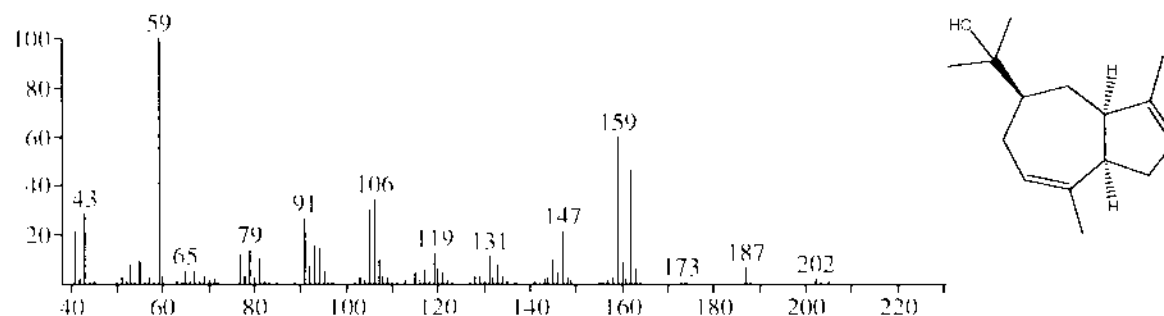
RT: 34.75 AI: 1648 KI: 1649 **Guaia-3,9-dien-11-ol <cis->**

CAS#: 405554-94-1 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1743

CN: 5-azulenemethanol, 1,3a,4,5,6,8a-hexahydro- $\alpha,\alpha,3,8$ -tetramethyl- (3aR,5R,8aR)

Synonyms: none

Source: *Chenopodium botrys* ex Vasu Dev



RT: 34.79 Al: 1649 Kl: 1650 **Eudesmol <β>**

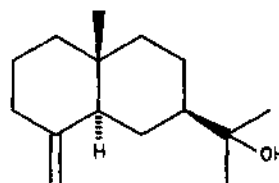
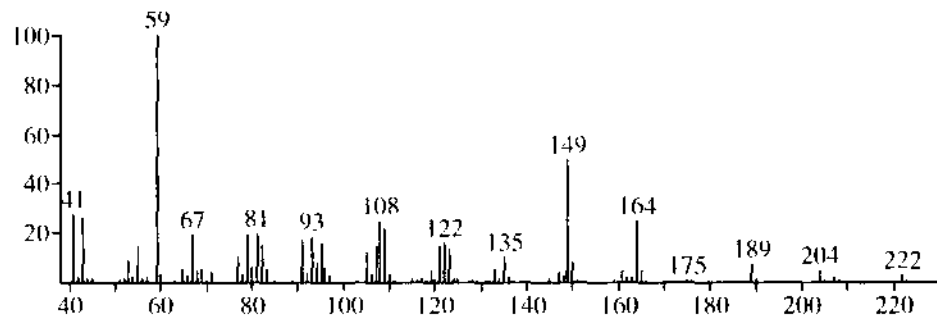
CAS#: 473-15-4 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 919

CN: 2-naphthalenemethanol, decahydro-α,α,4a-trimethyl-8-methylene-, (2R-(2α,4α,8αβ))-

Synonyms: β-selinene; eudesma-4(14)-en-11-ol

Source: *Juniperus monticola* f. *compacta* leaf oil, RP Adams #2580; 26.00% *Atractylodes lancea*,

Parfum. Kosmet. 63:237(1982); 16.80% *Amyris balsamifera*; 13.40% *Santolina rosmarinifolia*



RT: 34.81 Al: 1649 Kl: 1651 **Vulgarone B**

CAS#: 64180-68-3 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 220

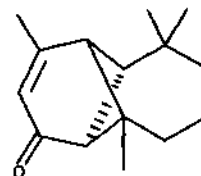
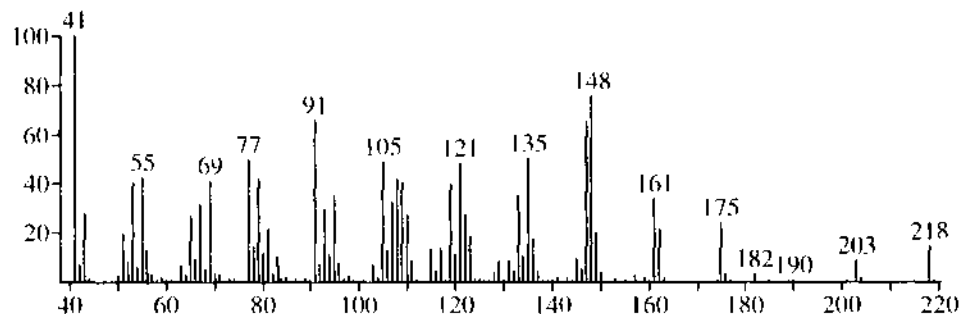
CN: tricyclo(5.4.0.02.8)undec-10-en-9-one, 2,6,6,11-tetramethyl-, stereoisomer

Synonyms: longiverbenone; longipinene, 1-oxo-α-

Source: *Artemisia persica* oil ex P. Weyerstahl; 2.60% *Artemisia moorcroftiana*,

p. 26. in: Newer Trends in Ess. Oils & Flav., Dhar, et al. (eds.), Tata McGrawe Hill Publ. Co.,

New Delhi, India (1993); 0.48% *Artemisia persica*



RT: 34.83 Al: 1650 Kl: 1651 **Cedr-8(15)-en-9-α-ol**

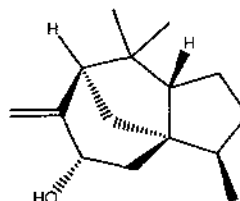
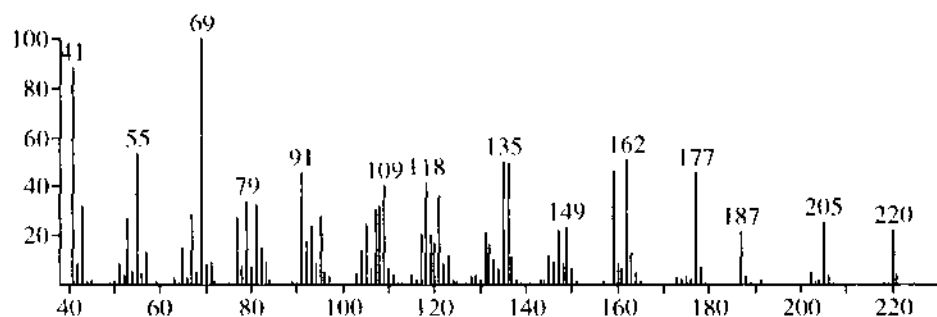
CAS#: 13567-41-4 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 395

CN: 1H-3a,7-methanoazulene-5-ol, octahydro-3,8,8-trimethyl-6-methylene-,

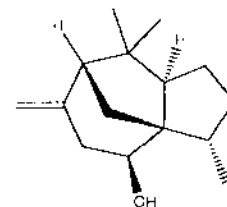
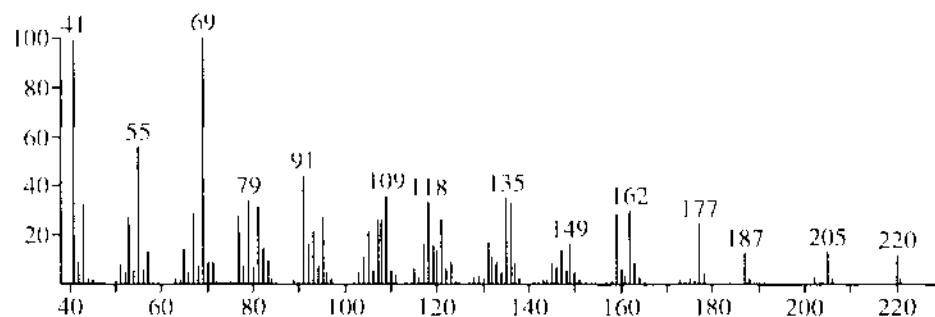
(3R-(3α,3αβ,5β,7β,8α))-

Synonyms: cedreanol; 3(15)-cedren-4-ol

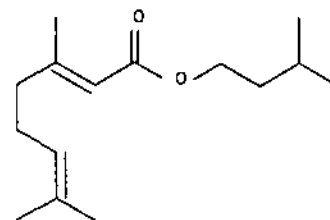
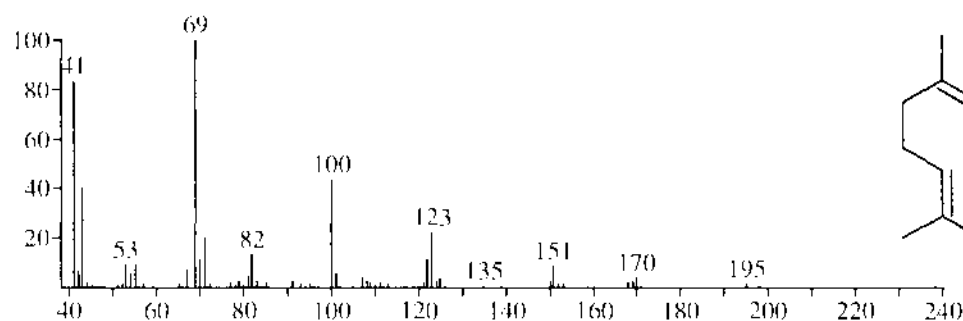
Source: ref. cpd. ex A. Tenaglia



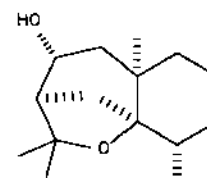
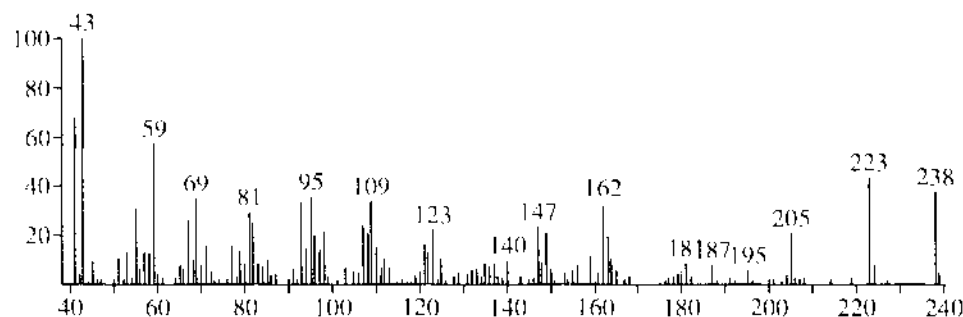
RT: 34.85 AI: 1650 KI: 1652 **Cedr-8(15)-en-10-ol**
 CAS#: 138117-22-3 ME: C₁₅H₂₄O FW: 220 MSD LIB#: 393
 CN: 1H-3a,7-Methanoazulen-4-ol,2,3,4,5,6,7,8,8-trimethyl-6-methylene-,
 [3S-(3 α ,3 β ,4 β ,7 β ,8 α)]-
 Synonyms: 3(15)-cedren-5-ol
 Source: ref. cpd. ex Peter Weyerstahl



RT: 34.85 AI: 1650 KI: 1652 **Isoamyl geranate**
 CAS#: 68133-73-3 ME: C₁₅H₂₆O₂ FW: 238 MSD LIB#: 855
 CN: 2,6-octadienoic acid, 3,7-dimethyl-, 3-methylbutyl ester, (E)-
 Synonyms: isopentyl geranate
 Source: Firmenich ex Jian-Qin Cu, Kunming



RT: 34.87 AI: 1651 KI: 1652 **Dihydro agarofuran <4- α -hydroxy->**
 CAS#: 123064-30-2 ME: C₁₅H₂₆O₂ FW: 238 MSD LIB#: 135
 CN: 2H-3,9a-methano-1-benzoxepin-4-ol, octahydro-2,2,5a,9-tetramethyl-
 Synonyms: none
 Source: comm. Amyris leaf oil, Port au Prince, Haiti



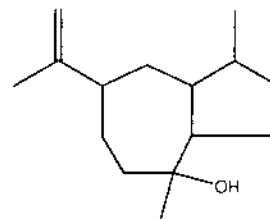
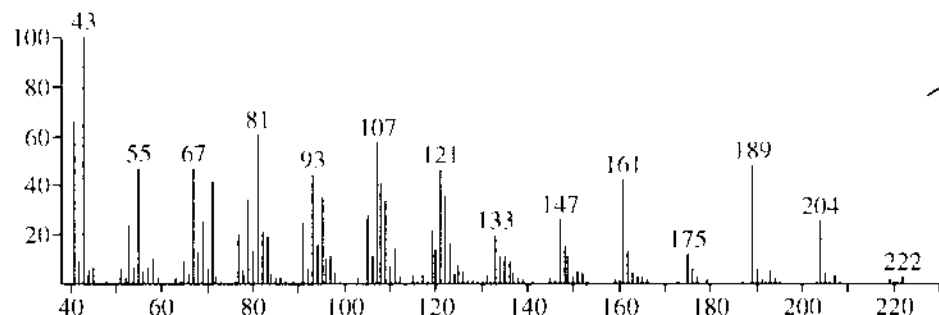
RT: 34.89 AI: 1651 KI: 1653 **Pogostol**

CAS#: 21698-41-9 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1645

CN: 4-azulenol, decahydro-1,4-dimethyl-7-(1-methylethenyl)-

Synonyms: guai-11-en-10-ol

Source: Patchouli oil ex RS Thakur, India: 3.20% *Aristolochia impudica*, JEOR 8:573(1996); 2.59% *Pogostemon cablin*



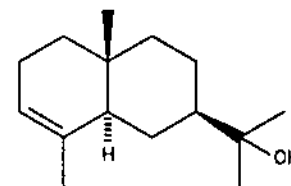
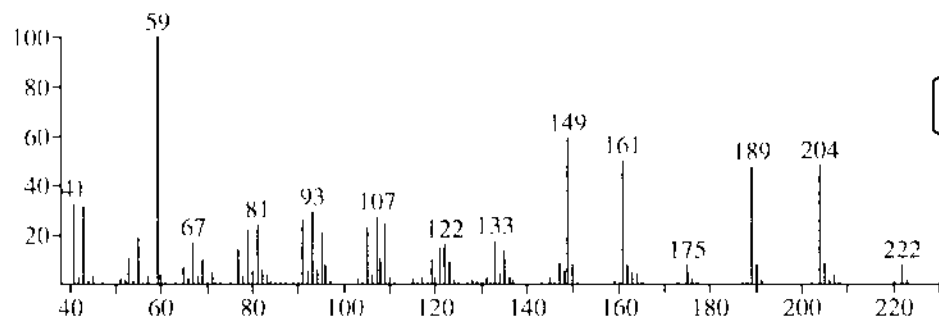
RT: 34.91 AI: 1652 KI: 1653 **Eudesmol <α>**

CAS#: 473-16-5 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 920

CN: 2-naphthalenemethanol, 1,2,3,4,4a,5,6,8a-octahydro-α,α,4a,8-tetramethyl-, (2R-(2α,4α,8aβ))-

Synonyms: α-selinenol; eudesm-3-en-11-ol

Source: *Juniperus monticola* f. *compacta* leaf oil, RP Adams #2580; 8.42% *Uromyces australis*, FEJ 11:133(1996); 6.10% *Eucalyptus viminalis*; 5.39% *Chamaecyparissus obtusa* (leaf)



RT: 34.91 AI: 1652 KI: 1653 **Himachalol**

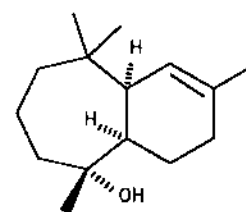
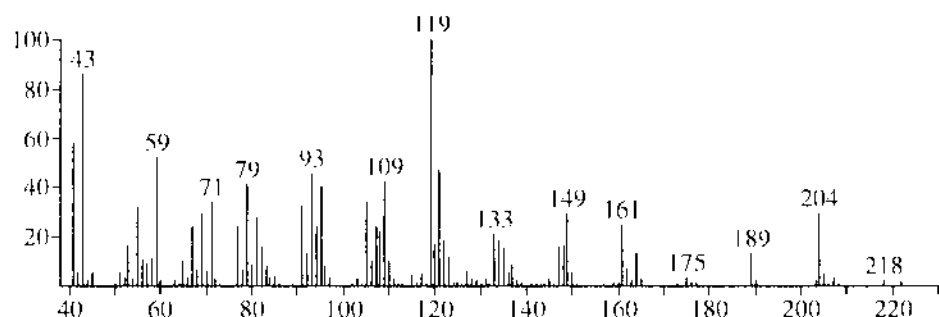
CAS#: 1891-45-8 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 246

CN: 1H-benzocyclohepten-9-ol, 2,4a,5,6,7,8,9,9a-octahydro-3,5,5,9-tetramethyl-, (4aS-(4a,9a,9a))-

Synonyms: none

Source: *Artemisia vestita* oil ex P. Weyerstahl; 5.00% *Artemisia vestita*,

Proc. 11th Cong. of Ess. Oils, New Delhi, India 4:127(1989); 0.60% *Magnolia coco*; 0.25% *Cedrus atlantica*



RT: 34.93 AI: 1652 KI: 1654 **Cadinol <α>**

CAS#: 481-34-5 ME: C₁₅H₂₆O FW: 222 MSD LIB#: 1322

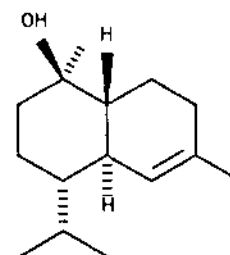
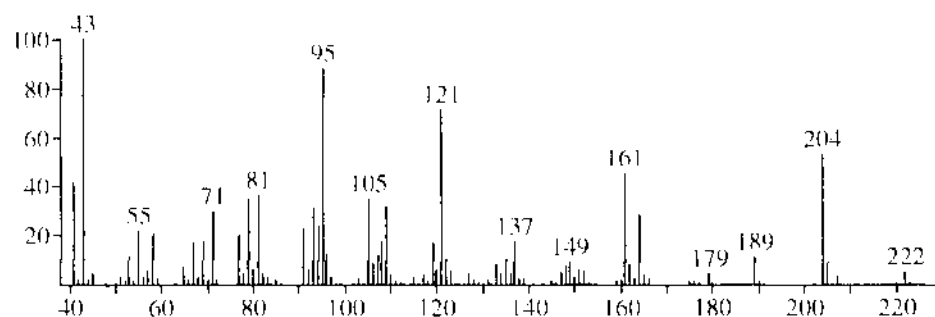
CN: 1-naphthalenol, 1,2,3,4,4a,7,8,8a-octahydro- 1,6-dimethyl-4-(1-methylethyl)- (1R-(1α,4β,4aβ,8aα))-

Synonyms: none

Source: *Pinus sylvestris* leaf oil ex A. Michet [Chalchat, Garry, Michet, *Planta Med.* (3)285(1985)];

25.13% *Chamaecypariss obtusa*, J. Agric. Biol. Chem. 45:1497(1981);

10.00% *Teucrium heterophyllum*; 9.30% *Santolina pectina*



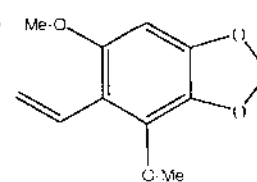
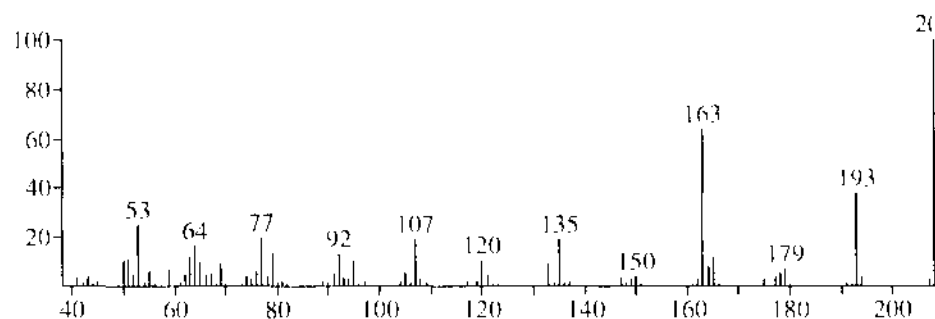
RT: 34.94 AI: 1653 KI: 1654 **Dimethoxy-5-vinyl-1,2-benzodioxide <4,6>**

CAS#: 79553-88-1 ME: C₁₁H₁₂O₄ FW: 208 MSD LIB#: 1837

CN: 4,6-dimethoxy-5-vinyl-1,2-benzodioxole

Synonyms: none

Source: *Zieria southwellii* oil ex Ian Southwell



RT: 34.95 AI: 1653 KI: 1654 **Thujopsanone <3>**

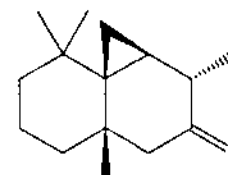
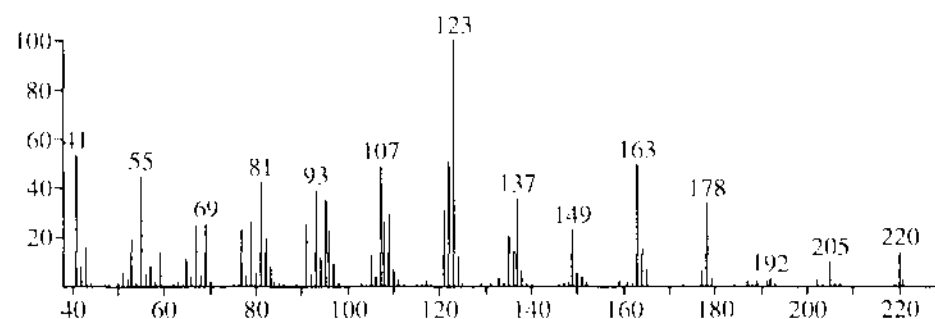
CAS#: 25966-79-4 ME: C₁₅H₂₄O FW: 220 MSD LIB#: 562

CN: cyclopropat(naphthalen-3(1H)-one, octahydro-2,4a,8,8-tetramethyl- (1aS-(1α,2α,4aβ,8aR*))-

Synonyms: 4 thujopsanone (farnesene numbering)

Source: *Widdringtonia whytei* wood oil ex AB Wood: 15.50% *Juniperus mexicana*,

Givaudanian 1:3(1971); 13.30% *Juniperus virginiana*; 5.00% *Widdringtonia whytei*



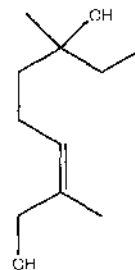
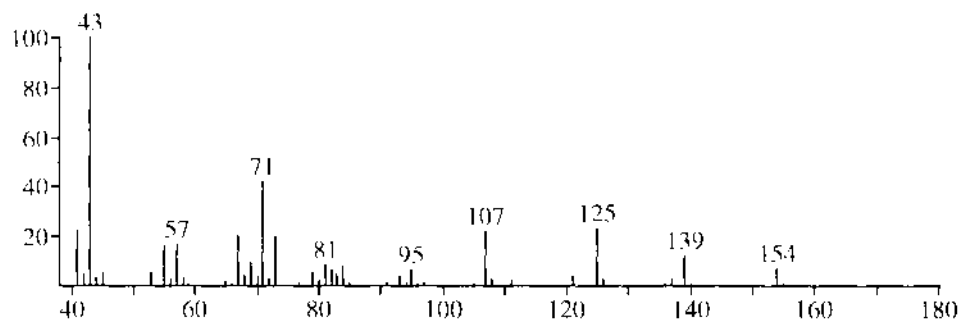
RT: 34.97 AI: 1654 KI: 1655 **Linalool <1,2-dihydro-8-hydroxy-(2E)->**

CAS#: 61434-51-3 MF: C₁₀H₂₀O₂ FW: 172 MSD LIB#: 2170

CN: 2-octene-1,6-diol, 2,6-dimethyl-, (2E,6S)-

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl



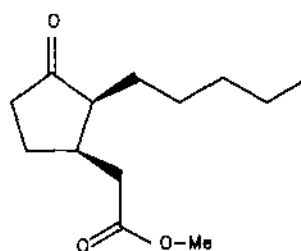
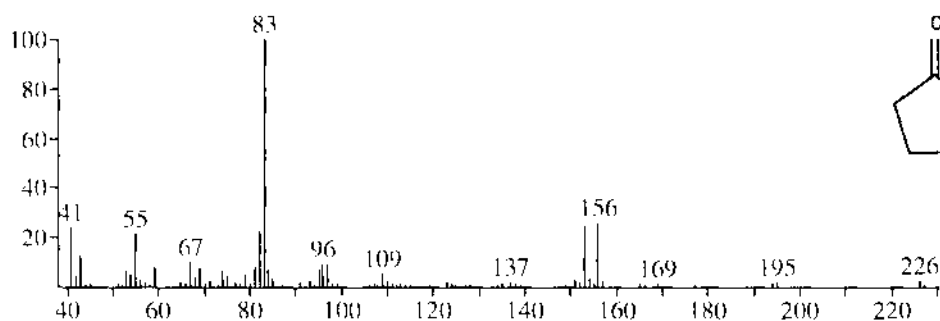
RT: 34.99 AI: 1654 KI: 1655 **Methyl dihydrojasmonate <cis->**

CAS#: 39647-11-5 MF: C₁₃H₂₂O₃ FW: 226 MSD LIB#: 1092

CN: cyclopentaneacetic acid, 3-oxo-2-pentyl-, methyl ester, (1R-cis)-

Synonyms: none

Source: Firmenich ex Art Tucker



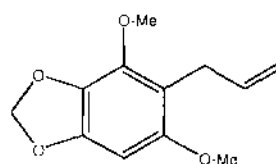
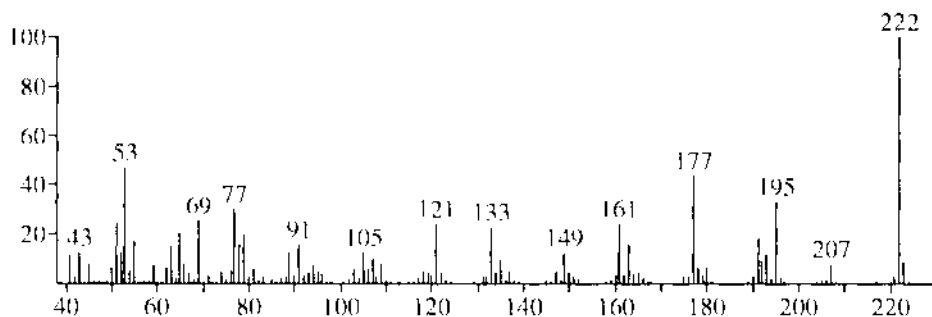
RT: 35.01 AI: 1655 KI: 1656 **Exaltacin**

CAS#: 23724-20-1 MF: C₁₂H₁₄O₄ FW: 222 MSD LIB#: 490

CN: 1,3-benzodioxole, 4,6-dimethoxy-5-(2-propenyl)-

Synonyms: none

Source: *Crocea exalta* ex J. Brophy



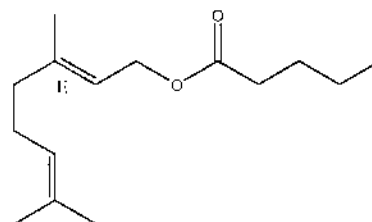
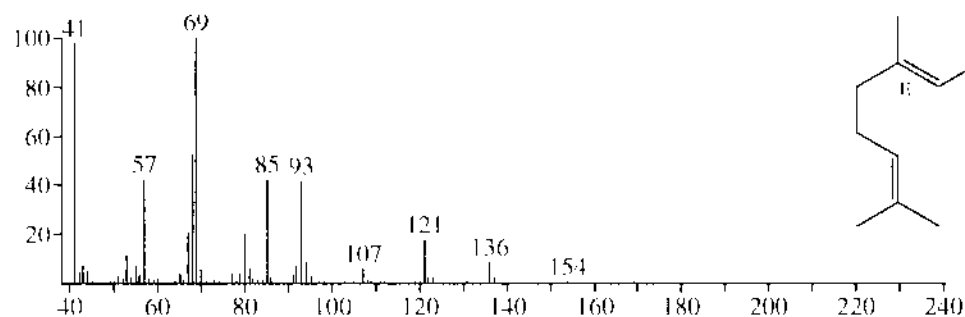
RT: 35.02 AI: 1655 KI: 1656 **Geranyl valerate**

CAS#: 10402-47-8 MF: C₁₅H₂₆O₂ FW: 238 MSD LIB#: 739

CN: pentanoic acid, (2E)-3,7-dimethyl-2,6-octadienyl ester

Synonyms: geranyl pentanoate; geraniol pentanoate

Source: ref. cpd. ex JJC Scheffler



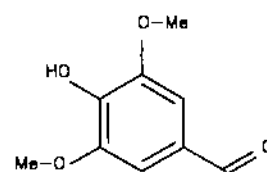
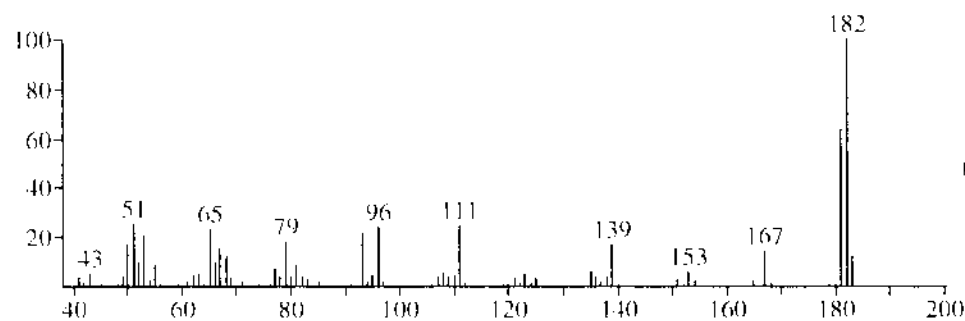
RT: 35.04 AI: 1655 KI: 1657 **Syringaldehyde**

CAS#: 134-96-3 MF: C₉H₁₀O₄ FW: 182 MSD LIB#: 1454

CN: benzaldehyde, 4-hydroxy-3,5-dimethoxy-

Synonyms: cedar aldehyde; gallaldehyde 3,5-dimethyl ether

Source: ref. cpd. ex E. von Rudloff



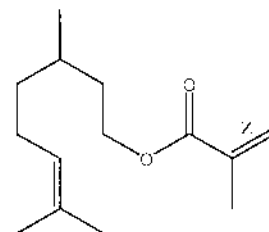
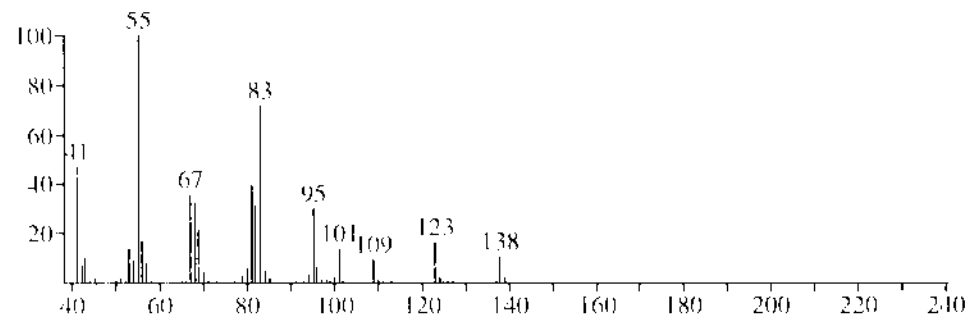
RT: 35.06 AI: 1656 KI: 1657 **Citronellyl tiglate <(Z)->**

CAS#: 84254-89-7 MF: C₁₅H₂₆O₂ FW: 238 MSD LIB#: 461

CN: 2-butenoic acid, 2-methyl-, 3,7-dimethyl-6-octenyl ester, (Z)-

Synonyms: angelic acid, 3,7-dimethyl-6-octenyl ester

Source: Aldrich Chem.



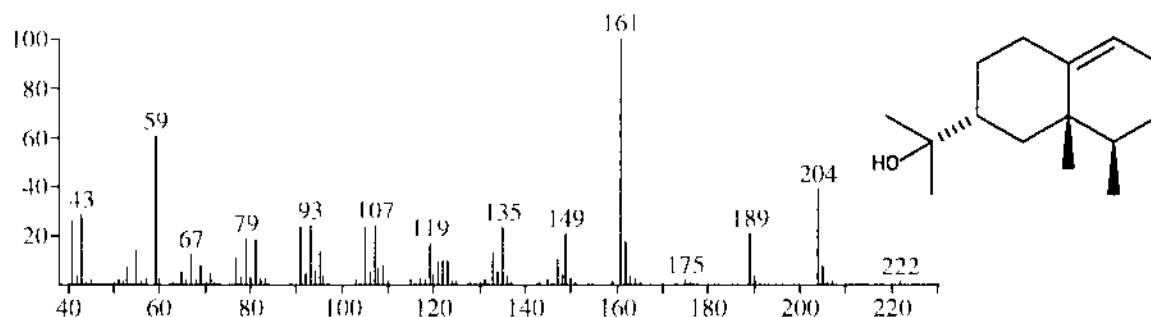
RT: 35.07 AI: 1656 KI: 1658 **Valerianol**

CAS#: 20489-45-6 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 136

CN: 2-naphthalenemethanol, 1,2,3,4,6,7,8,8a-octahydro- $\alpha,\alpha,8,8a$ -tetramethyl-, (2R-(2 α ,8 β ,8a β))-

Synonyms: khusinol

Source: comm. Amyris oil, Port au Prince, Haiti



RT: 35.08 AI: 1656 KI: 1658 **Bisabolol oxide B < α >**

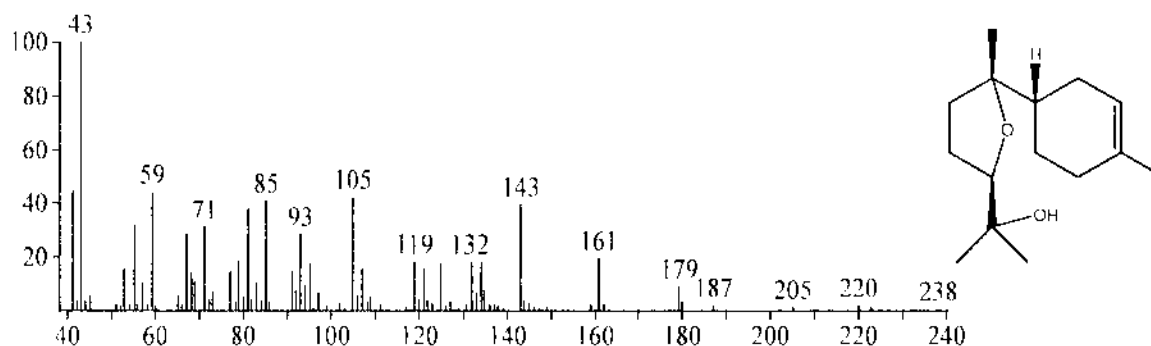
CAS#: 26184-88-3 MF: C₁₅H₂₆O₂ FW: 238 MSD LIB#: 429

CN: 2-furanmethanol, tetrahydro- $\alpha,\alpha,5$ -trimethyl-5-(4-methyl-3-cyclohexen-1-yl)-, (2S-(2 $\alpha,5\beta$.(R*)))-

Synonyms: bisabolol oxide II

Source: chamomile oil, Aromatics Intl. ex Art Tucker; 23.54% *Chamomilla recutita* (Brazil),

JEOR 5:337(1993); 20.00% *Chamomilla recutita* (Hungary); 14.00% *Artemisia desertorum*



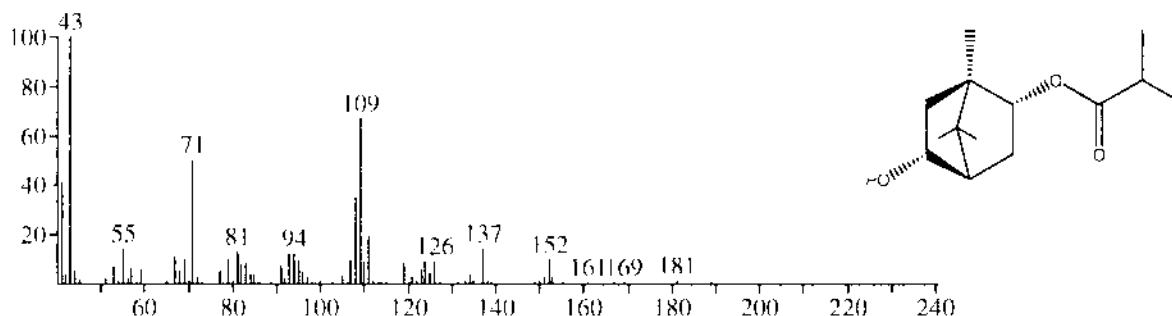
RT: 35.08 AI: 1656 KI: 1658 **Isobornyl isobutanoate <5-hydroxy>**

CAS#: 107783-33-5 MF: C₁₄H₂₄O₃ FW: 240 MSD LIB#: 1450

CN: propanoic acid, 2-methyl-, 5-hydroxy-1,7,7-trimethylbicyclo(2.2.1)hept-2-yl ester, (1R-(exo, exo))-

Synonyms: isoborneol isobutyrate <5-hydroxy>

Source: *Strobilanthes auriculatus* oil ex P. Weyerstahl



RT: 35.08 AI: 1656 KI: 1658 **Patchouli alcohol**

CAS#: 5986-55-0 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1239

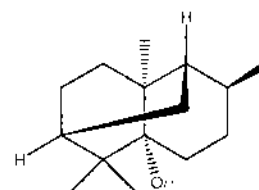
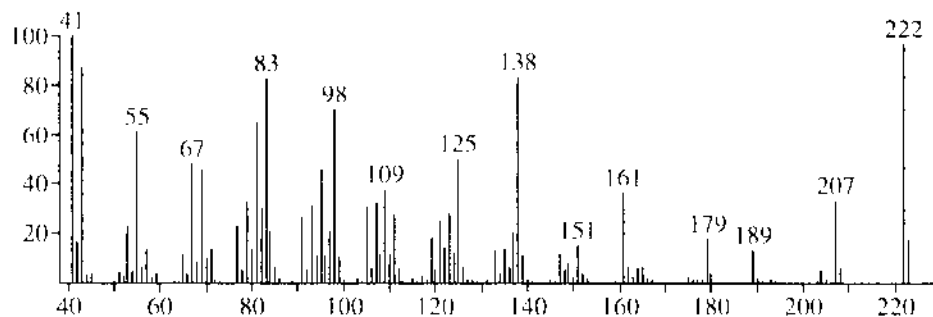
CN: 1,6-methanonaphthalen-1(2H)-ol, octahydro-4,8a,9,9-tetramethyl-, (1R-(1 α ,4 β ,4aa,6 β ,8aa))-

Synonyms: patchoulol

Source: Patchouli oil ex Firmenich ex A.T. Thomas; 37.76 *Pogostemon cablin*.

Proc. 11th Intl. Cong. of Ess. Oils, New Delhi, India 4:99(1989);

10.30% *Valeriana javanica*; 8.40% *Curcuma aromatica*



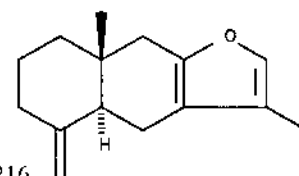
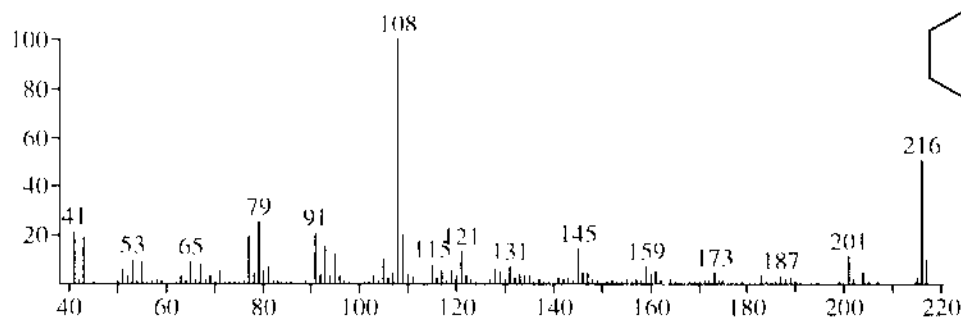
RT: 35.09 AI: 1657 KI: 1658 **Atractylone**

CAS#: 6989-21-5 MF: C₁₅H₂₀O FW: 216 MSD LIB#: 1415

CN: naphtho(2,3-b)furan, 4,4a,5,6,7,8,8a,9-octahydro-3,8a-dimethyl-5-methylene-, (4aS-trans)-

Synonyms: atractyloxide; atractylol

Source: *Siparuna guianensis* oil ex M.G.B. Zoghbi, Brazil



RT: 35.14 AI: 1658 KI: 1659 **Selin-11-en-4- α -ol**

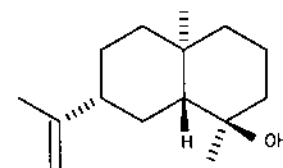
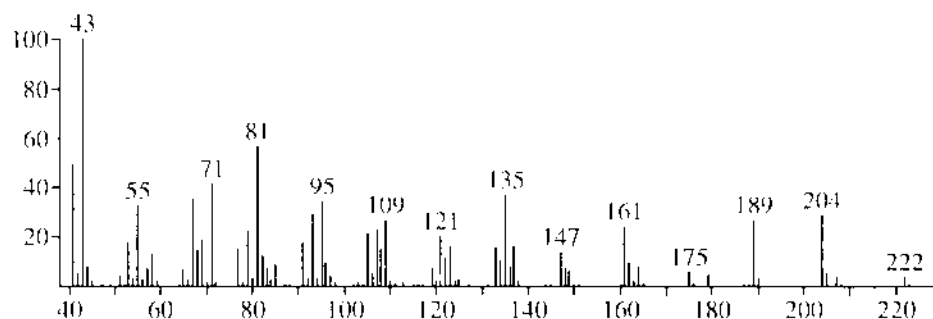
CAS#: 16641-47-7 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1222

CN: 1-naphthalenol, decahydro-1,4a-dimethyl-7-(1-methylethenyl)-, (1R-(1 α ,4 α β ,7 β ,8aa))-

Synonyms: kongol; eudesm-11-en-4-ol, 4 α -H-

Source: Ruby sweet orange oil ex Z. Fleisher; 1.30% *Aydedron barbeyana*, FFI 4:93(1989);

1.00% *Anibia camellita*; 0.37% *Eugenia uniflora* (leaf)



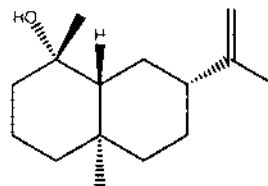
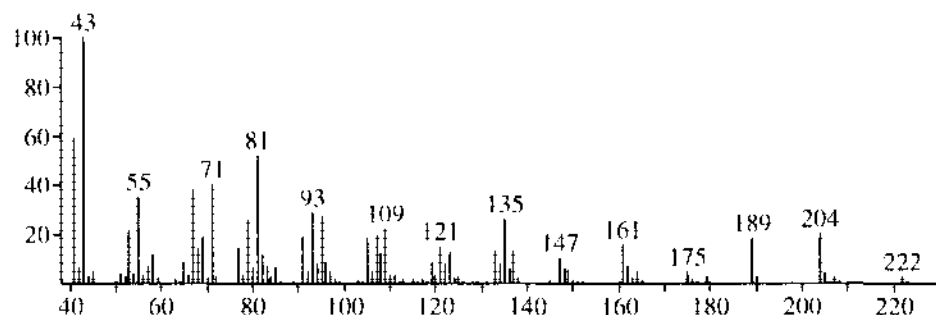
RT: 35.15 AI: 1658 KI: 1660 **Intermedeol <neo>**

CAS#: 5945-72-2 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 841

CN: 1-naphthalenol, decahydro-1,4a-dimethyl-7-(1-methylethenyl)-(1S,4aR,7R,8aR)-

Synonyms: neointermedeol

Source: ref. cpd. ex P. Weyerstahl



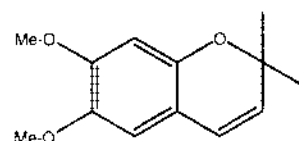
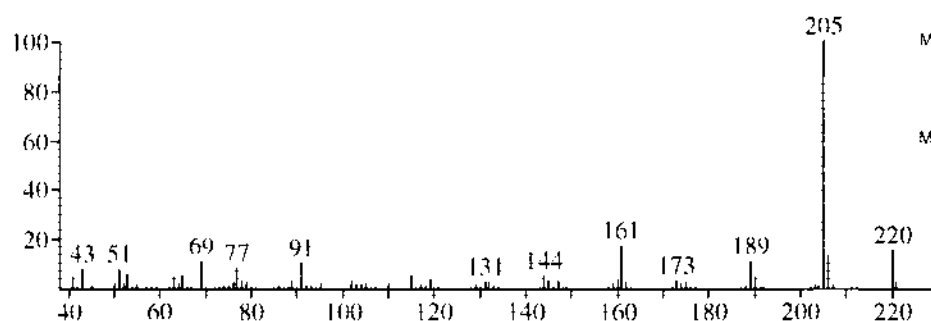
RT: 35.16 AI: 1658 KI: 1660 **Ageratochromene**

CAS#: 644-06-4 MF: C₁₃H₁₆O₃ FW: 220 MSD LIB#: 22

CN: 2H-1-benzopyran, 6,7-dimethoxy-2,2-dimethyl-

Synonyms: precocene II

Source: *Ageratum houstonianum* ex Aldo Tava, Italy



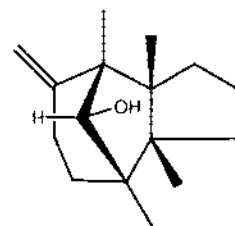
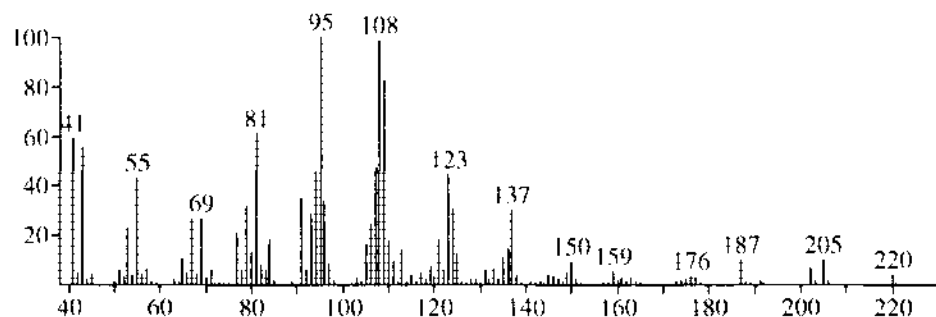
RT: 35.16 AI: 1658 KI: 1660 **Gymnomitrol**

CAS#: 41410-53-1 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1877

CN: 4,8-methanoazulen-9-ol, decahydro-3a,4,8a-trimethyl-7-methylene-(3aS,4S,8R,8aS,9S)-

Synonyms: none

Source: *Bazzania trilobata* ex W. Koenig



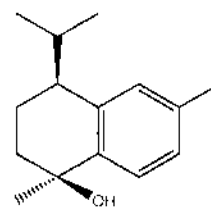
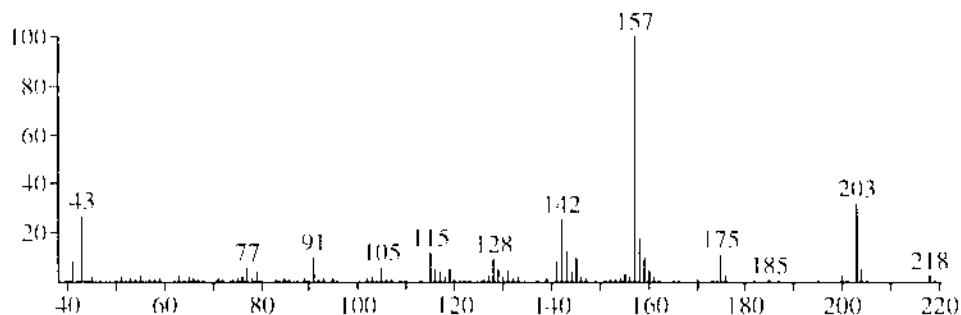
RT: 35.20 AI: 1660 KI: 1661 **Calamenen-10-ol <cis->**

CAS#: 123932-45-6 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 1426

CN: 1-naphthalenol, 1,2,3,4-tetrahydro-1,6-dimethyl-4-(1-methylethyl)-, (1S,4S)-

Synonyms: calamenen-10- β -ol

Source: *Solidago graminifolia* ex P. Weyerstahl



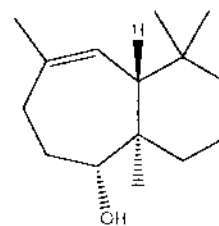
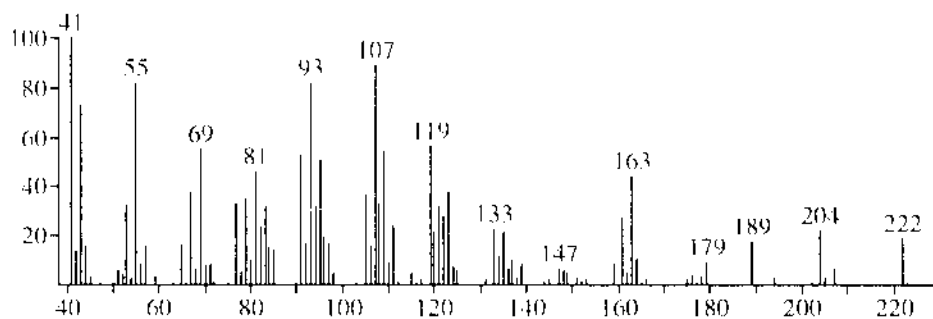
RT: 35.25 AI: 1661 KI: 1662 **Allohimachalol**

CAS#: 19435-77-9 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1733

CN: 1H benzocyclohepten-5-ol, 2,3,4,4a,5,6,7,9a-octahydro-1,1,4a,8-tetramethyl-, (4aR, 5R, 9aR)-

Synonyms: none

Source: *Cedrus libani* wood oil ex. KHC. Baser



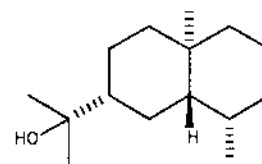
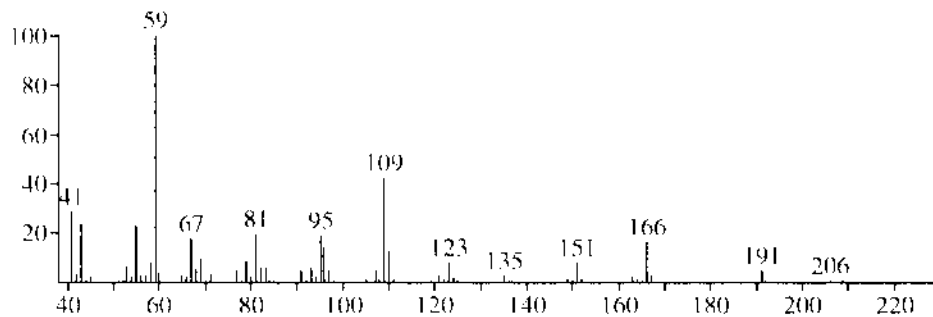
RT: 35.25 AI: 1661 KI: 1662 **Eudesmol <dihydro->**

CAS#: 6770-16-7 MF: C₁₅H₂₈O FW: 224 MSD LIB#: 696

CN: 2-naphthalenemethanol, decahydro- $\alpha,\alpha,4\alpha,8$ -tetramethyl-, (2R-(2 $\alpha,4\alpha,8\alpha,8\alpha\beta$))-

Synonyms: dihydroeudesmol; eudesman-11-ol

Source: ref. cpd. ex E. von Rudloff



RT: 35.29 AI: 1662 KI: 1663 **Eudesmol <7-*epi*- α ->**

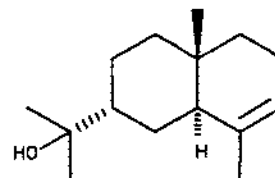
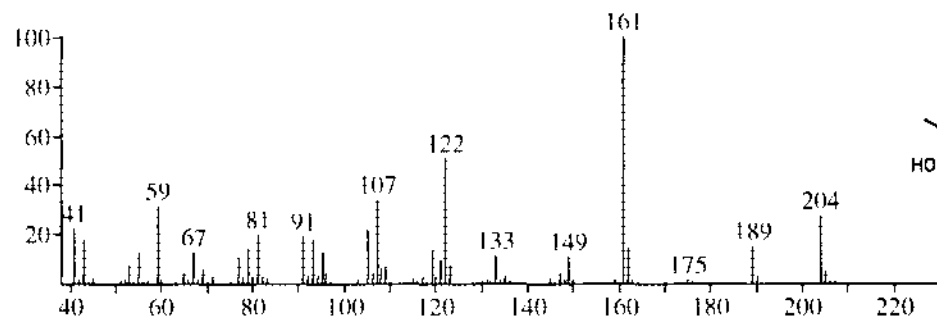
CAS#: 123123-38-6 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 137

CN: 2-naphthalenemethanol, 1,2,3,4,4a,5,6,8a-octahydro- $\alpha,\alpha,4a,8$ -tetramethyl-, (2*S*-(2 $\alpha,4a\beta,8a\alpha$))-

Synonyms: none

Source: comm. Amyris oil, Port au Prince, Haiti: 10.70% *Amyris balsamifera*,

FFI 10:379(1995): 3.20% *Phoebe porosa*; 0.05% *Thymus funkii*



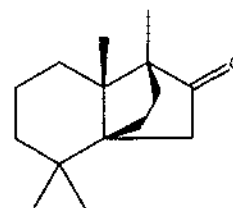
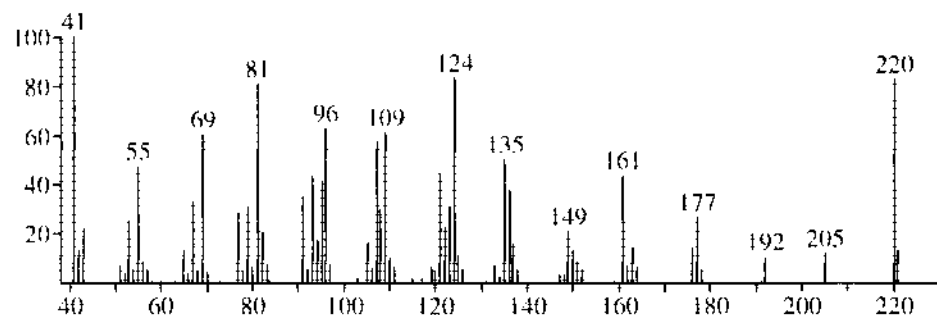
RT: 35.38 AI: 1664 KI: 1665 **Junicedranone**

CAS#: 188584-40-9 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1917

CN: 1,3a-ethano-3aH-inden-2(3H)-one, hexahydro-1,4,4,7a-tetramethyl-, (1*R*,3*aR*,7*aS*)-rel-

Synonyms: 6-epijunicedran-8-one

Source: *Juniperus chinensis* wood oil ex Larry Cool



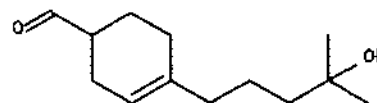
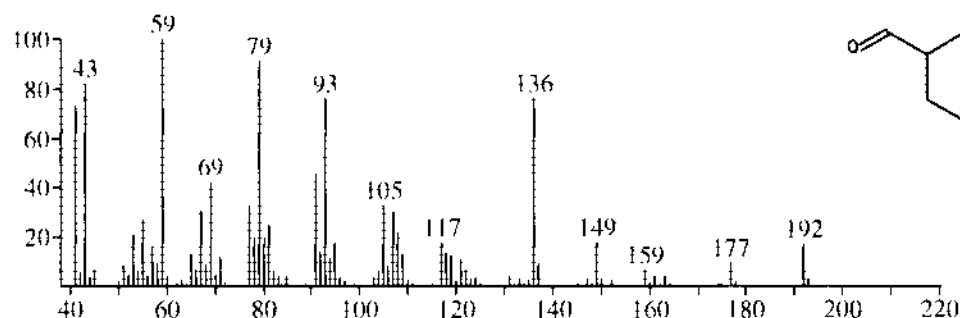
RT: 35.41 AI: 1665 KI: 1666 **Lyrat**

CAS#: 31906-04-4 MF: C₁₃H₂₂O₂ FW: 210 MSD LIB#: 1041

CN: 3-cyclohexene-1-carboxaldehyde, 4-(4-hydroxy-4-methylpentyl)-

Synonyms: none

Source: IFF ex Jian-Qin Cu, Kunming



RT: 35.42 AI: 1665 KI: 1666 **Intermedeol**

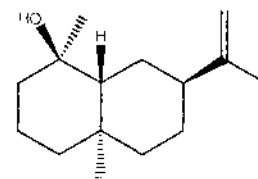
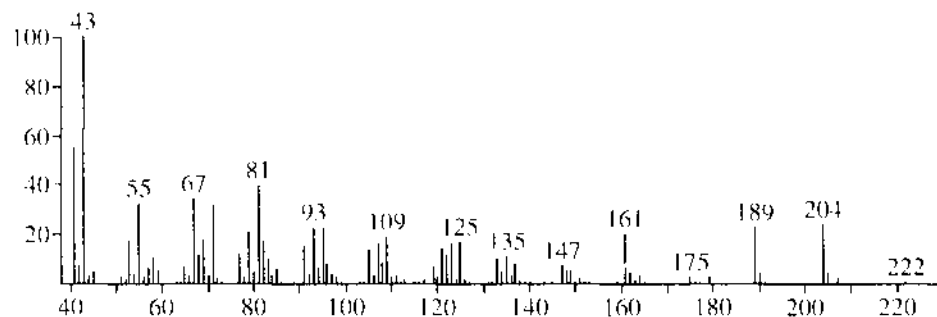
CAS#: 6168-59-8 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 316

CN: 1-naphthalenol, decahydro-1,4a-dimethyl-7-(1-methylethenyl)-, (1R-(1 α ,4 α β ,7 α ,8 α , α))-

Synonyms: 5 β ,10 α -eudesm-11-en-4-ol

Source: *Bothriochloa pertusa* oil ex P. Weyerstahl; 0.71% *Croton eluteria*,

FFI 6:193(1991); 0.10% *Sequoiadendron giganteum*



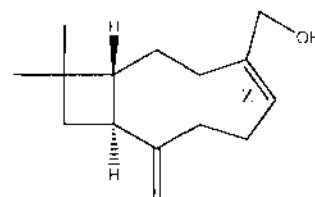
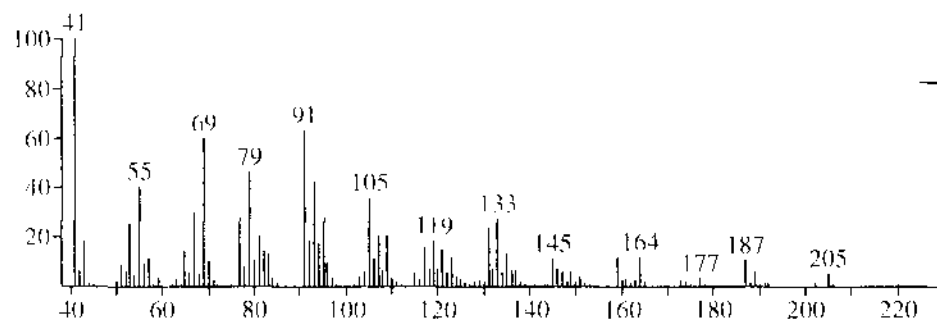
RT: 35.45 AI: 1666 KI: 1667 **Caryophyllene <14-hydroxy-(Z)->**

CAS#: 78683-81-5 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1736

CN: bicyclo[7.2.0]undec-4-ene-4-methanol, 11,11-dimethyl-8-methylene-, (1R,4Z,9S)-

Synonyms: 13-hydroxycaryophyllene, α -betulenol

Source: *Betula pendula* ex Husna Baser



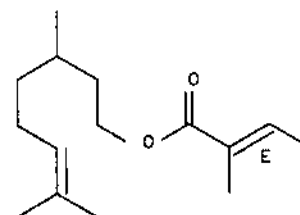
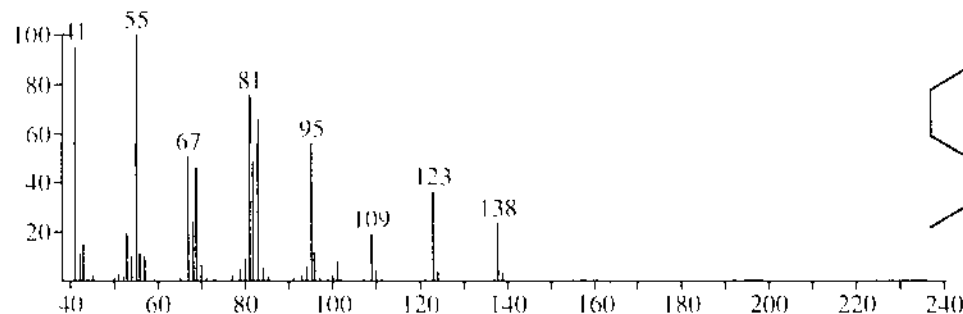
RT: 35.46 AI: 1666 KI: 1668 **Citronellyl tiglate <(E)->**

CAS#: 24717-85-9 MF: C₁₅H₂₆O₂ FW: 238 MSD LIB#: 460

CN: 2-butenic acid, 2-methyl-, 3,7-dimethyl-6-octenyl ester, (E)-

Synonyms: tiglic acid citronellyl ester

Source: Aldrich Chem.



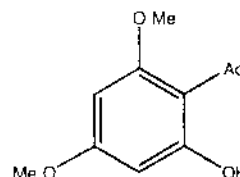
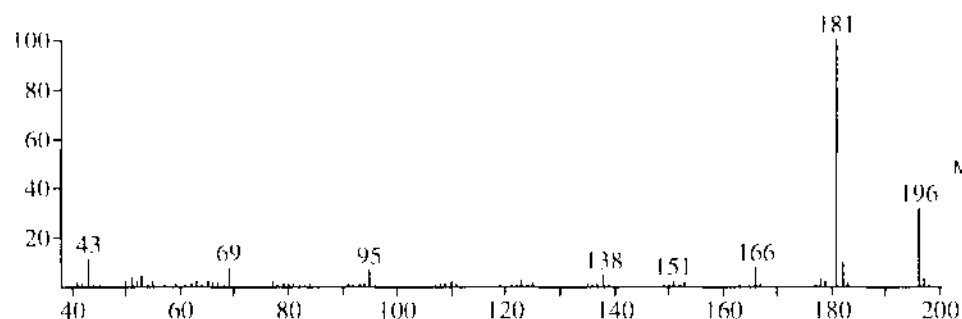
RT: 35.47 AI: 1667 KI: 1668 **Phloracetophenone <2,4-dimethylether->**

CAS#: 90-24-4 MF: C₁₀H₁₂O₄ FW: 196 MSD LIB#: 1841

CN: ethanone, 1-(2-hydroxy-4,6-dimethoxyphenyl)-

Synonyms: brevifolin, xanthoxylin

Source: ref. cpd. ex Ian Southwell



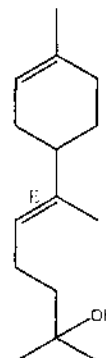
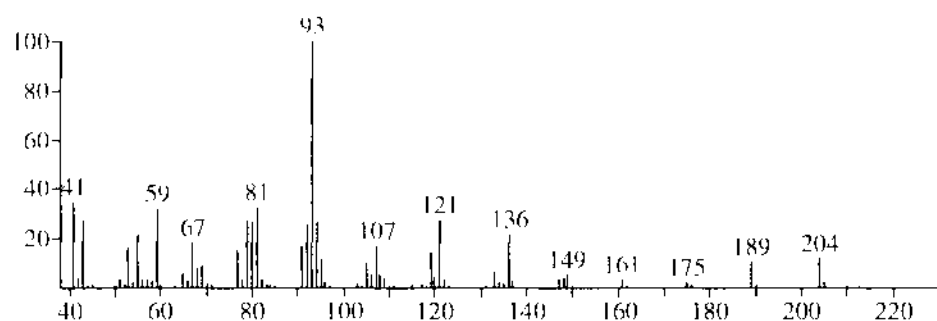
RT: 35.47 AI: 1667 KI: 1668 **Bisabol-11-ol <(E)->**

CAS#: 73416-20-3 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 299

CN: 5-hepten-2-ol, 2-methyl-6-(4-methyl-3-cyclohexen-1-yl)-, (E)-

Synonyms: bisaboladien-4-ol <2.7Z->

Source: ref. cpd. ex P. Weyerstahl



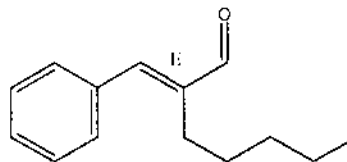
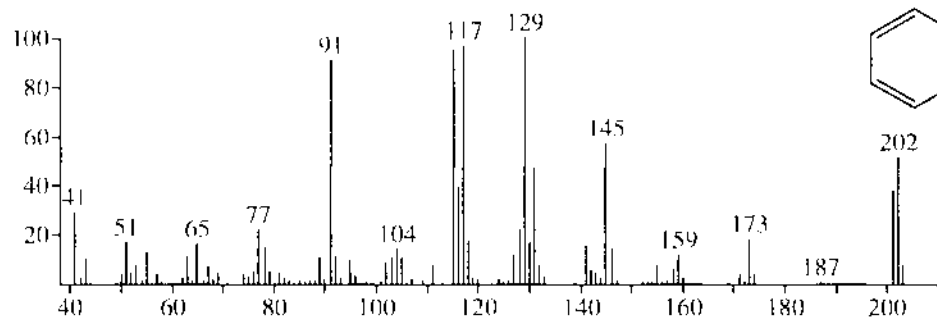
RT: 35.48 AI: 1667 KI: 1668 **Amyl cinnamaldehyde <(E)->**

CAS#: 78605-96-6 MF: C₁₄H₁₈O FW: 202 MSD LIB#: 130

CN: heptanal, 2-(phenylmethylene), (E)-

Synonyms: jasmal, flomine; α-amyleinnamaldehyde

Source: Bedoukian Res. ex Art Tucker



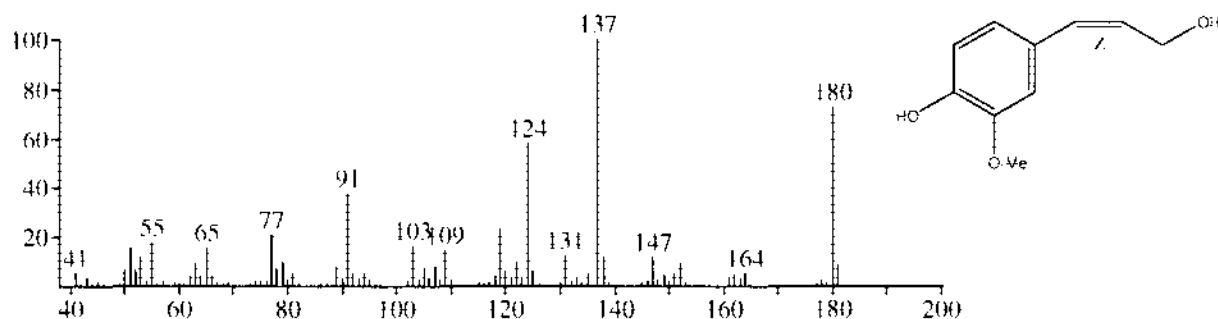
RT: 35.48 AI: 1667 KI: 1668 **Coniferyl alcohol <(Z)->**

CAS#: 69056-21-9 MF: C₁₀H₁₂O₃ FW: 180 MSD LIB#: 465

CN: phenol, 4-(3-hydroxy-1-propenyl)-2-methoxy-, (Z)-

Synonyms: cis-coniferyl alcohol

Source: ref. cpd. ex Norm Lewis



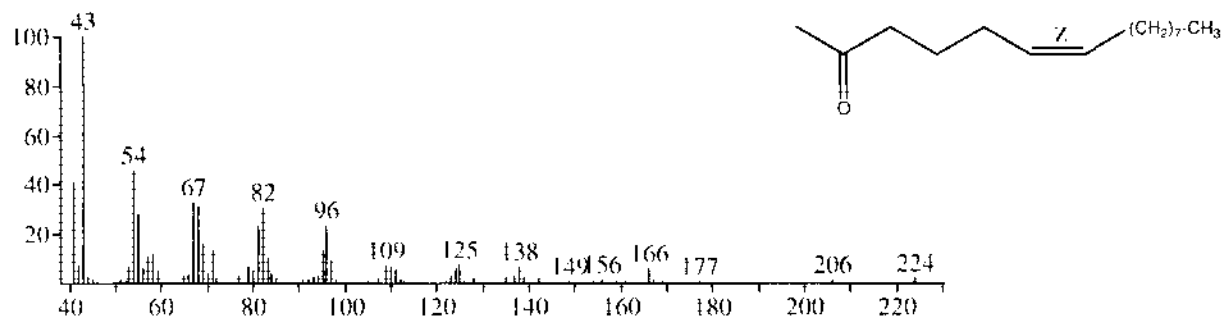
RT: 35.49 AI: 1667 KI: 1668 **Pentadecen-2-one <(6Z)->**

CAS#: 252931-22-9 MF: C₁₅H₂₈O FW: 224 MSD LIB#: 1903

CN: 6-pentadecen-2-one,(6Z)-

Synonyms: none

Source: *Juniperus oxycedrus* leaf oil, France, RP Adams #9757



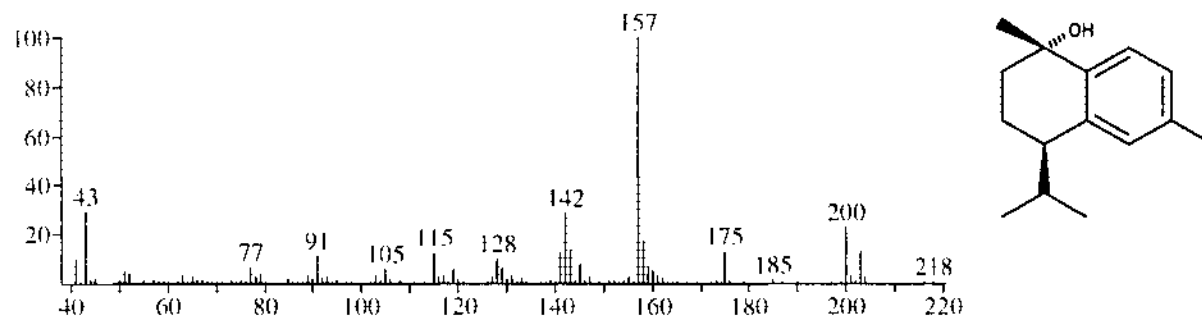
RT: 35.51 AI: 1668 KI: 1669 **Calamenen-10-ol <trans->**

CAS#: 123931-36-2 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 1427

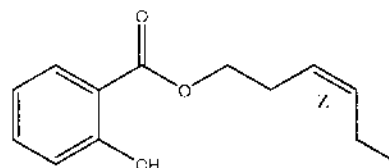
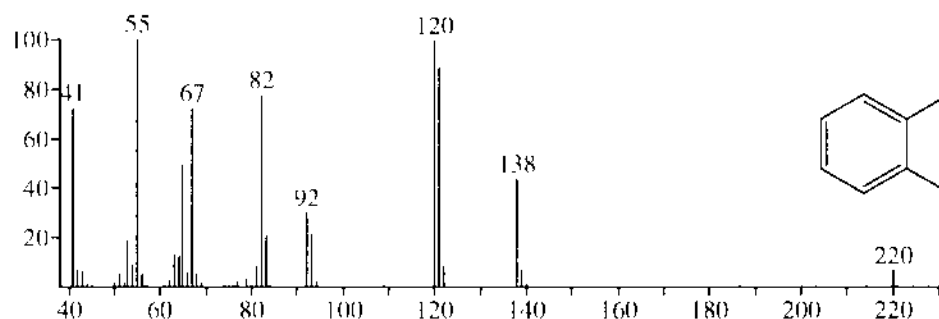
CN: 1-naphthalenol, 1,2,3,4-tetrahydro-1,6-dimethyl-4-(1-methylethyl)- (1R,4S)-

Synonyms: calamenen-10- α -ol

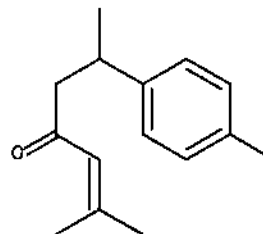
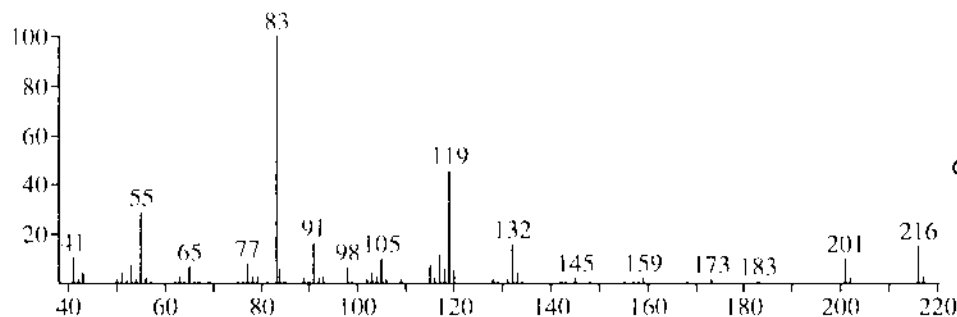
Source: *Solidago graminifolia* ex P. Weyerstahl



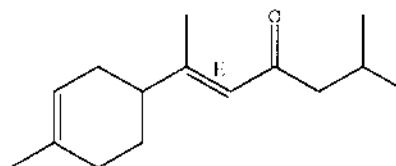
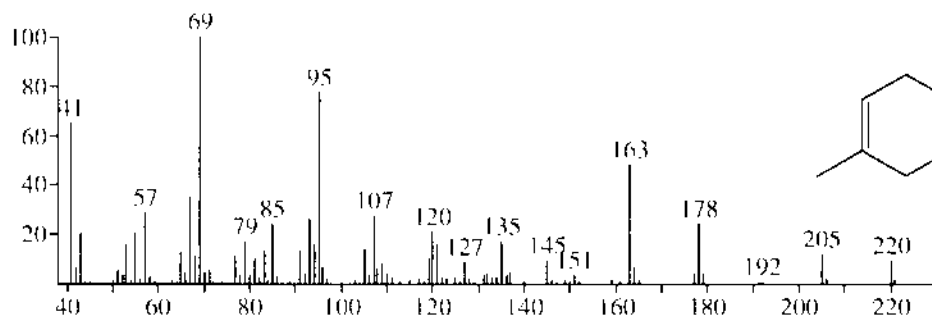
RT: 35.51 AI: 1668 KI: 1669 **Hexenyl salicylate <(3Z)->**
 CAS#: 65405-77-8 MF: C₁₃H₁₆O₃ FW: 220 MSD LIB#: 815
 CN: benzoic acid, 2-hydroxy-, 3-hexenyl ester, (Z)-
 Synonyms: cis-3-hexenyl salicylate
 Source: HFF ex Art Tucker; 0.10% *Narcissus poeticus*, JEOR 4:47(1992)



RT: 35.51 AI: 1668 KI: 1669 **Turnerone <ar->**
 CAS#: 532-65-0 MF: C₁₅H₂₀O FW: 216 MSD LIB#: 523
 CN: 2-hepten-4-one, 2-methyl-6-(4-methylphenyl)-
 Synonyms: none
 Source: *Curcuma domestica* oil ex JH Zwaving, Netherlands; 27.50% *Curcuma longa*,
 in: Chemical Comp. of *Curcuma longa*. Toussaint, Ph.D. Thesis, Univ. of Hamburg (1982);
 0.60% *Curcuma xanthorrhiza*; 0.01% *Curcuma aromatica*



RT: 35.52 AI: 1668 KI: 1669 **Dihydroatlantone <(E)-10,11->**
 CAS#: 57130-01-5 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1732
 CN: 2-hepten-4-one, 6-methyl-2-(4-methyl-3-cyclohexen-1-yl)-, (E)-
 Synonyms: none
 Source: *Cedrus libani* wood oil, ex. Husnu Baser



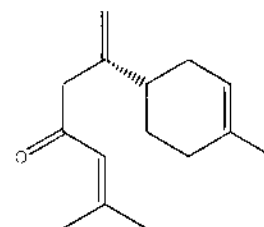
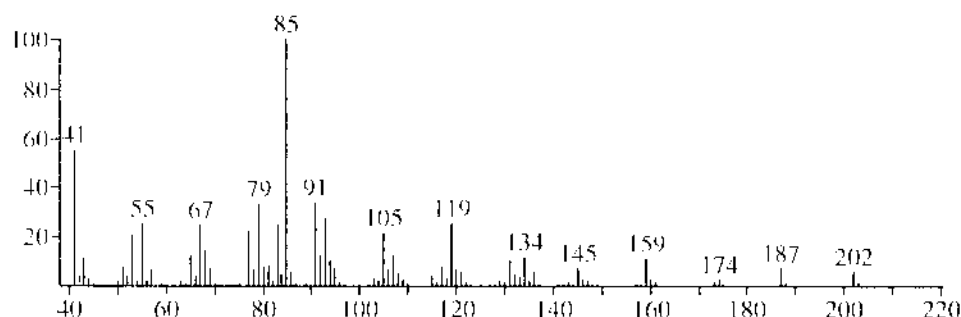
RT: 35.53 AI: 1668 KI: 1669 **Atlantone <β>**

CAS#: 38331-79-2 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 253

CN: 1,5-heptadien-4-one, 6-methyl-2-(4-methyl-3-cyclohexen-1-yl)-, (R)-

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl; 0.50% *Cedrus atlantica*. J:OR 6:323(1994)



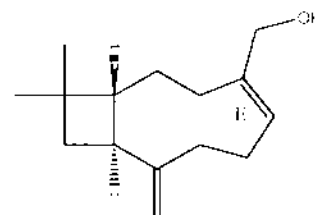
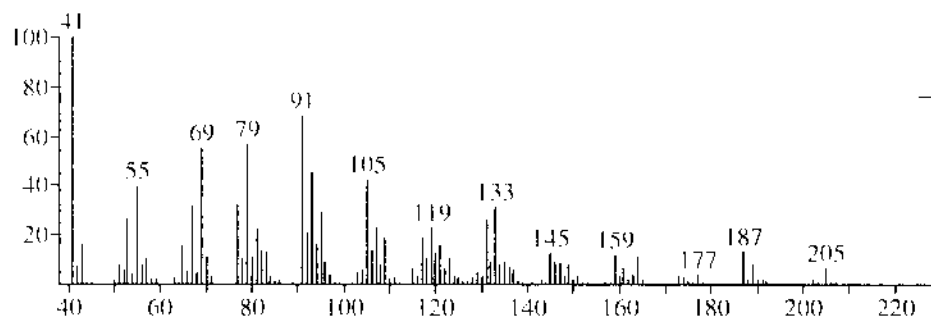
RT: 35.53 AI: 1668 KI: 1669 **Caryophyllene <14-hydroxy-9-epi-(E)>**

CAS#: 79768-25-5 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 383

CN: bicyclo[7.2.0]undec-4-ene-4-methanol, 11,11-dimethyl-8-methylene-, (1R-(1R*,4E,9S*))-

Synonyms: none

Source: ref. cpd. ex AF Barrero



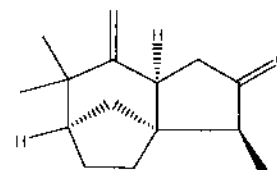
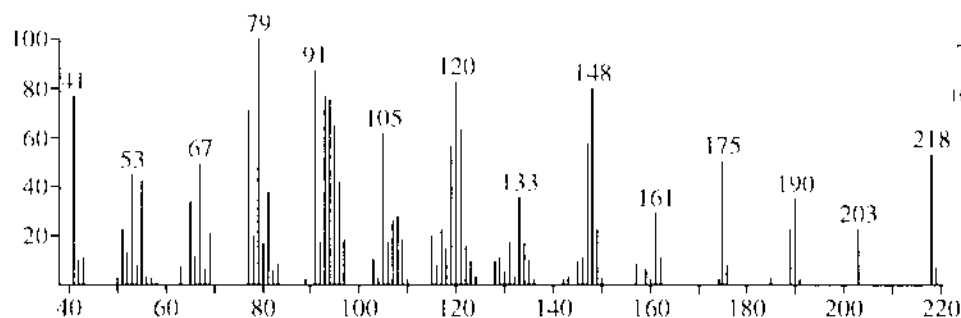
RT: 35.54 AI: 1668 KI: 1670 **Zizanone <epi>**

CAS#: 28624-27-3 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 1570

CN: 1H-3a,6-methanoazulen-2-(3H)-one, hexahydro-3,7,7-trimethyl-8-methylene-, (3S, 3aR, 6R, 8aS)-

Synonyms: 2-epizizanone, 2-epi-Ziza-6(13)-en-3-one

Source: Vetiver cv. KV, Nepal



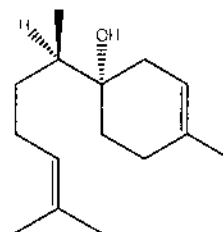
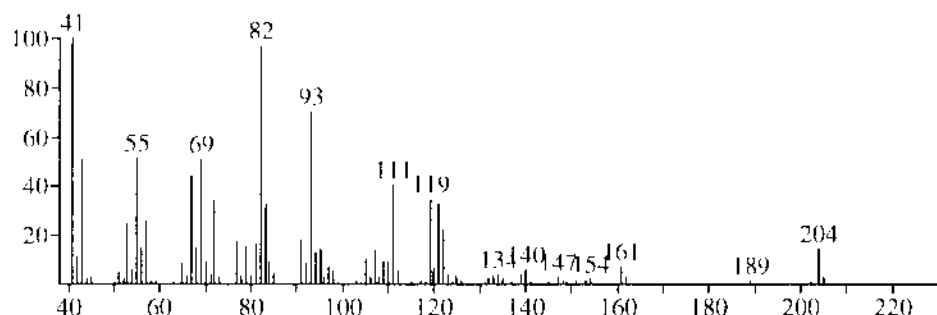
RT: 35.60 AI: 1670 KI: 1671 **Bisabolol <epi-β>**

CAS#: 235421-59-7 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 981

CN: 3-cyclohexen-1-ol, 1-(1R,1,5-dimethyl-4-hexenyl)-4-methyl-

Synonyms: 6-epi-β-eudesmol

Source: *Lantana camara* oil ex P. Weyerstahl



RT: 35.60 AI: 1670 KI: 1671 **Bulnesol**

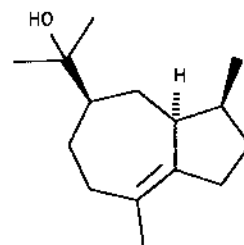
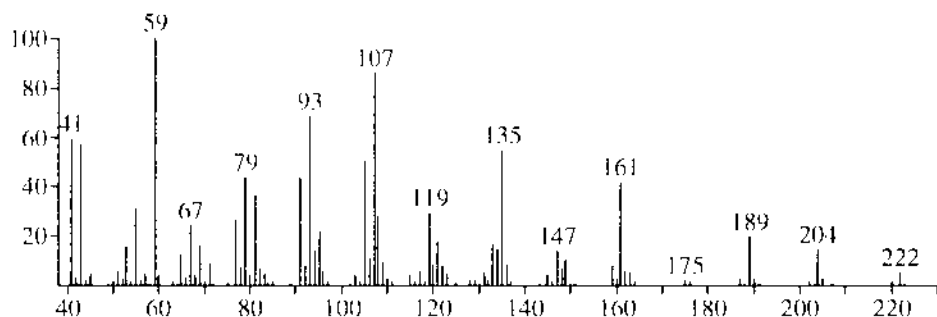
CAS#: 22451-73-6 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1129

CN: 5-azulenemethanol, 1,2,3,3a,4,5,6,7-octahydro-α,α,3,8-tetramethyl-, (3S-(3α,3aβ,5α))-

Synonyms: guaia-1(10) en-11-ol

Source: *Neocallotropis pancheri* oil ex P. Raharivelomanana: 45.00% *Bulnesia sarmienti*,

Chem. Ind. 2:1715(1962); 5.32% *Pogostemon cablin*; 1.80% *Leptospermum javanicum*



RT: 35.64 AI: 1671 KI: 1672 **Tetradecanol <n>**

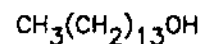
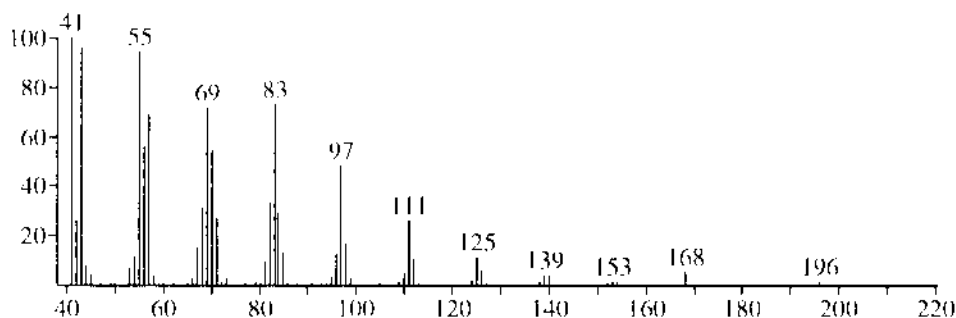
CAS#: 112-72-1 MF: C₁₄H₃₀O FW: 214 MSD LIB#: 31

CN: 1-tetradecanol

Synonyms: myristic alcohol, myristyl alcohol

Source: ref. cpd. ex. E. von Rudloff; 1.10% *Angelica archangelica*, J. Ag. Food

Chem. 42:1979(1994); 0.70% *Amomum koenigii*; 0.17% *Ruta graveolens*



RT: 35.65 AI: 1671 KI: 1672 **Butylidene phthalide <(3Z)->**

CAS#: 72917-31-8 MF: C₁₂H₁₂O₂ FW: 188 MSD LIB#: 1039

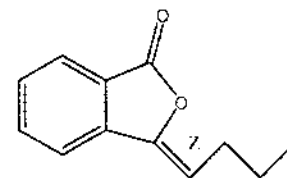
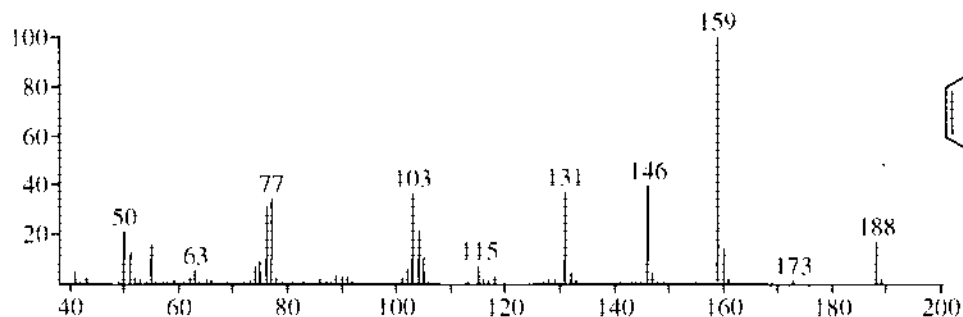
CN: 1-(3H)-isobenzofuranone, 3-butylidene-, (Z)-

Synonyms: none

Source: Lovage root oil ex F. Perineau; 2.24% *Levisticum officinale* (China).

Proc. 11th Intl. Cong. Ess. Oils, New Delhi, India 4:89 (1989);

1.50% *Levisticum officinale* (France); 1.20% *Curcuma aromatica*



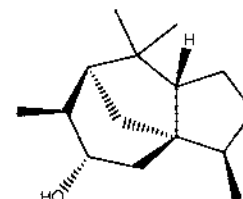
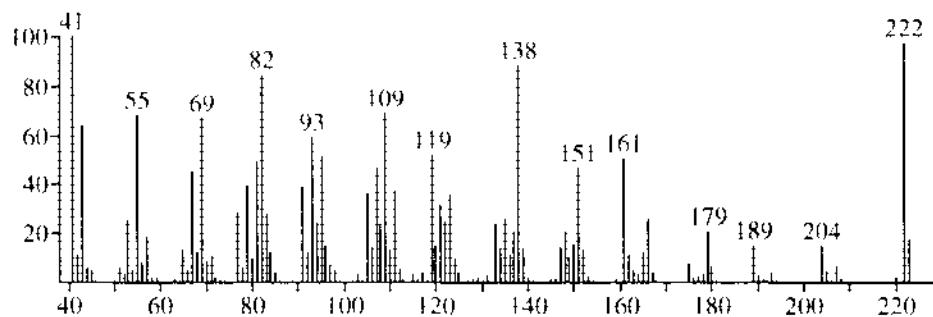
RT: 35.68 AI: 1672 KI: 1673 **Cedranol <5-iso->**

CAS#: 13567-45-8 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 402

CN: 1H-3a,7-methanoazulen-5-ol, octahydro-3,6,8,8-tetramethyl-, (3R-(3a,3aβ,6a,7β,8aα))-

Synonyms: cedran-9-α-ol

Source: Cedrane deriv. ex Joseph-Nathan, J. Natl. Prod. 47:924 (1984)



RT: 35.74 AI: 1674 KI: 1675 **Bisabolol <β->**

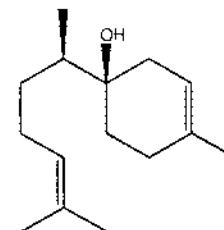
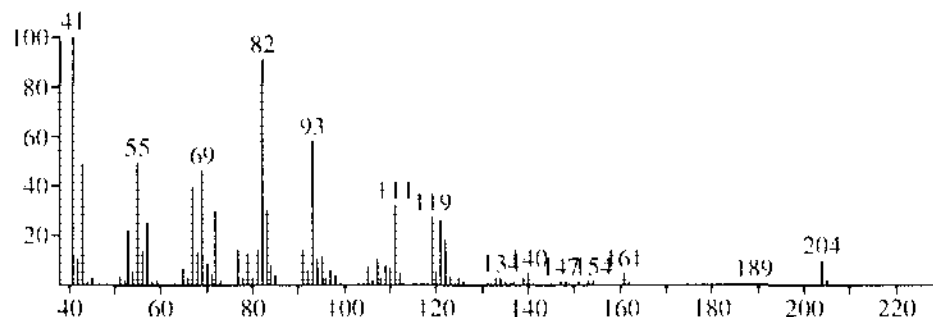
CAS#: 15352-77-9 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 297

CN: 3-cyclohexen-1-ol, 1-(1,5-dimethyl-4-hexenyl)-4-methyl-, (S-(R*,R*))-

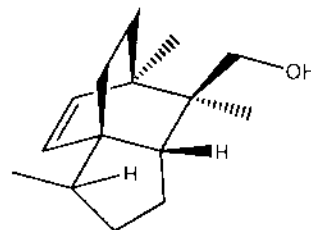
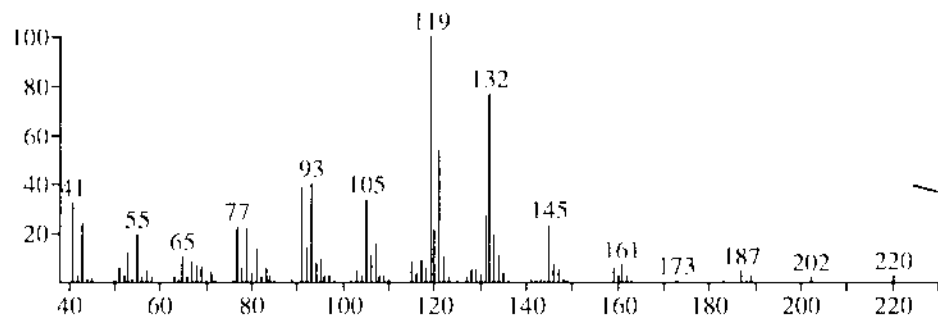
Synonyms: none

Source: ref. epd. ex P. Weyerstahl; 8.30% *Aydedron barbeyana*, FIJ 4:93 (1998);

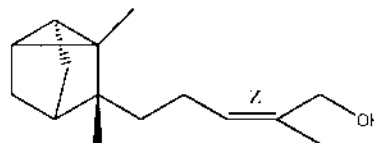
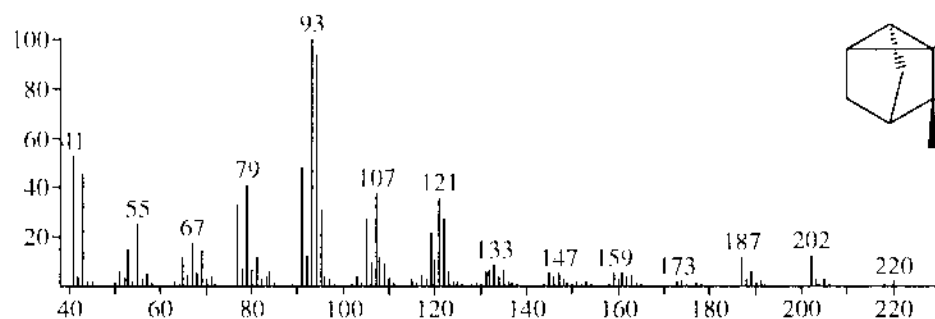
1.90% *Phoebe porosa*; 1.50% *Aegle marmelos* (leaf)



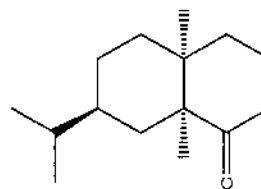
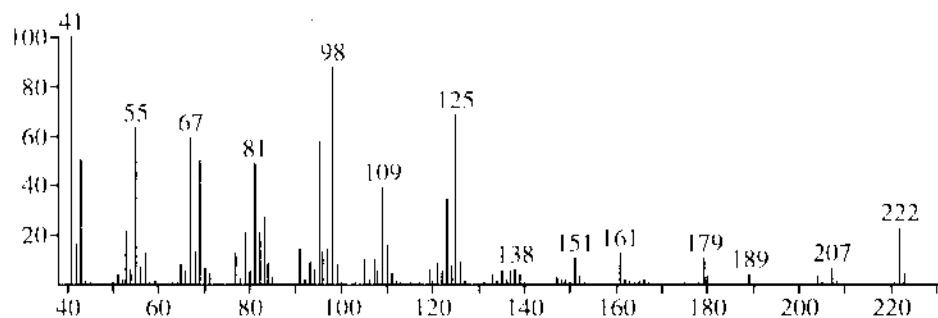
RT: 35.74 AI: 1674 KI: 1675 **Helifolenol A**
 CAS#: 000-00-0 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 770
 CN: not assigned
 Synonyms: none
 Source: ref. cpd. ex P. Weyerstahl



RT: 35.74 AI: 1674 KI: 1675 **Santalol <(Z)-α>**
 CAS#: 115-71-9 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1380
 CN: methyl-2-penten-1-ol<5-(2,3-dimethyltricyclo(2.2.1.0(2,6))hept-3-yl)-2->
 Synonyms: santalol a
 Source: Sandalwood oil ex Brian Lawrence: 50.00% *Santalum album*, Dragoco Rept. 107(1988);
 2.70% *Anonum muricarpum*; 1.35% *Artemisia nilagirica*



RT: 35.74 AI: 1674 KI: 1675 **Valeranone**
 CAS#: 55528-90-0 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1530
 CN: 1(2H)-naphthalenone, octahydro-4a,8a-dimethyl-7-(1-methylethyl)-, (4α,7β,8α)-
 Synonyms: jatamansone
 Source: ref. cpd. ex E. von Rudloff; 9.00% *Valeriana officinalis*, Pharm. Weekblad. 114:443(1979);
 3.20% *Valeriana javanica* (root); 2.00% *Artemisia speciosa*



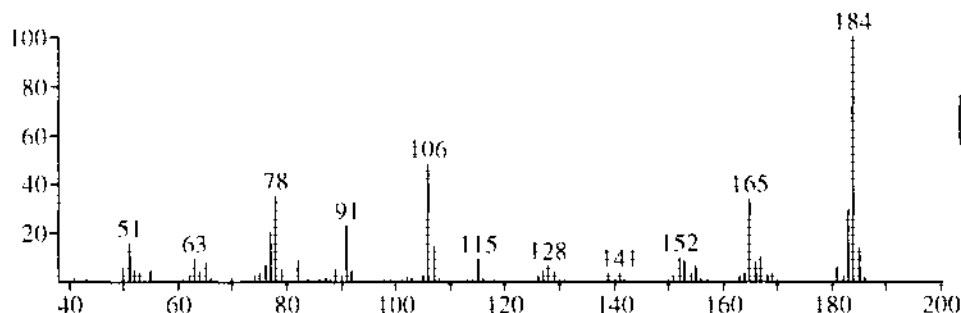
RT: 35.75 AI: 1674 KI: 1675 **Hydroxydiphenyl methane <2->**

CAS#: 28994-41-4 MF: C₁₃H₁₂O FW: 184 MSD LIB#: 2005

CN: phenol, 2-(phenylmethyl)-

Synonyms: cresol, α -phenyl-, o-; o-benzylphenol; delegol T

Source: Aldrich Chem. ex JJ Brophy



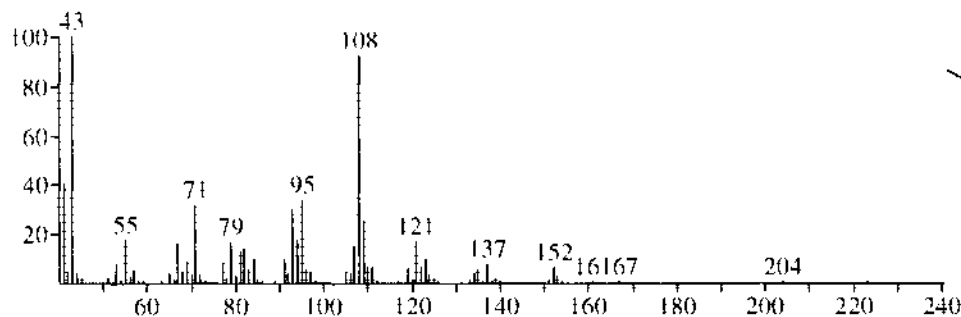
RT: 35.75 AI: 1674 KI: 1675 **Isobornyl isobutanoate <8-hydroxy->**

CAS#: 107783-34-6 MF: C₁₄H₂₄O₃ FW: 240 MSD LIB#: 1451

CN: propanoic acid, 2-methyl-, 7-(hydroxymethyl)-1,7-dimethylbicyclo(2.2.1)hept-2-yl ester,

(1R-(exo, syn))-Synonyms: isborneol isobutyrate<8-hydroxy->

Source: *Strobilanthus auriculatus* oil ex P. Weyerstahl



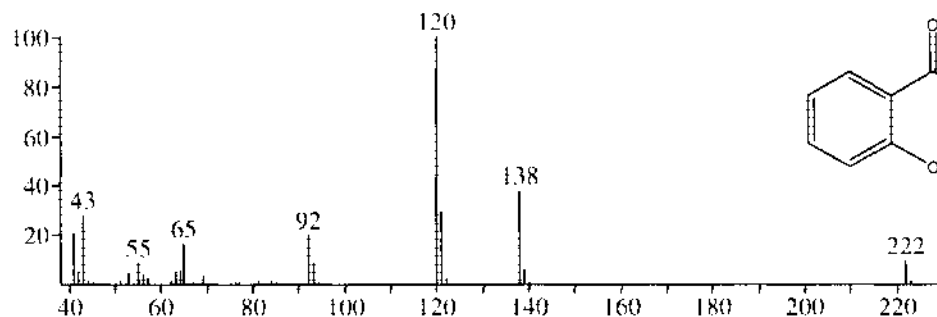
RT: 35.75 AI: 1674 KI: 1675 **Salicylic acid, hexyl ester**

CAS#: 6259-76-3 MF: C₁₃H₁₈O₃ FW: 222 MSD LIB#: 1373

CN: benzoic acid, 2-hydroxy-, hexyl ester

Synonyms: hexyl salicylate

Source: Pfaltz & Bauer ex Art Tucker



RT: 35.77 AE: 1675 KE: 1676 **Cadalene <8,9-epoxide>**

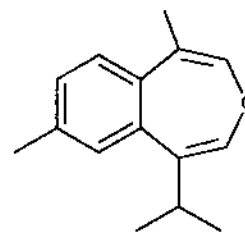
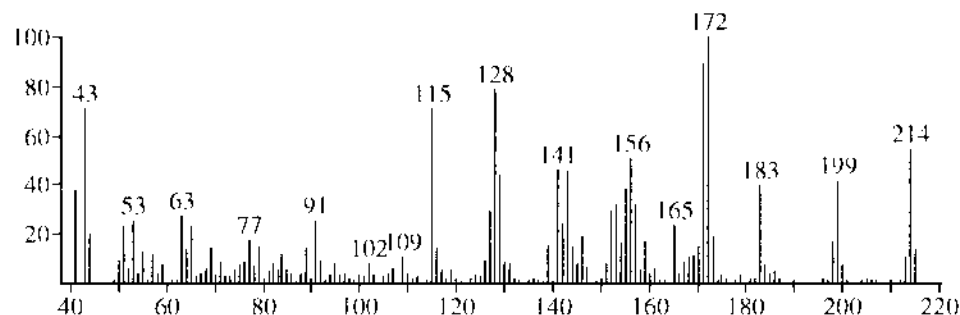
CAS#: 160152-35-2 MF: C₁₅H₁₈O FW: 214 MSD LIB#: 1425

CN: 3-benzoxepin, 1,7-dimethyl-5-(1-methylethyl)-

Synonyms: none

Source: *Solidago graminifolia* ex P. Weyerstahl; 7.10% *Triphasia trifolia*,

JEOR 7:215(1995); 3.00% *Brachylaena hutchinsii*; 0.73% *Copaifera officinalis*



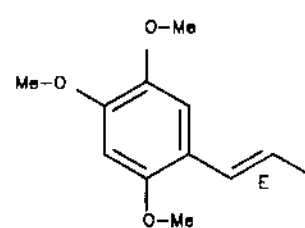
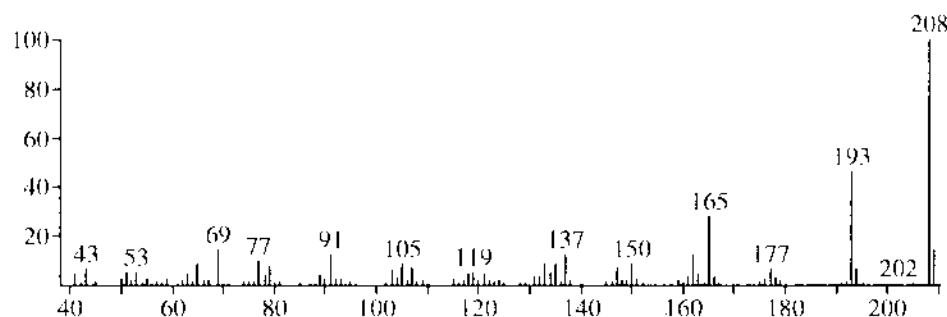
RT: 35.79 AE: 1675 KE: 1676 **Asarone <(E)->**

CAS#: 2883-98-9 MF: C₁₂H₁₆O₃ FW: 208 MSD LIB#: 349

CN: benzene, 1,2,4-trimethoxy-5-(1-propenyl)-, (E)-

Synonyms: asarone, α-; trans-asarone

Source: calamus oil ex Firmenich ex Alan F. Thomas



RT: 35.80 AE: 1675 KE: 1676 **Andro enecalinol**

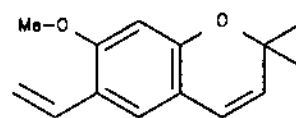
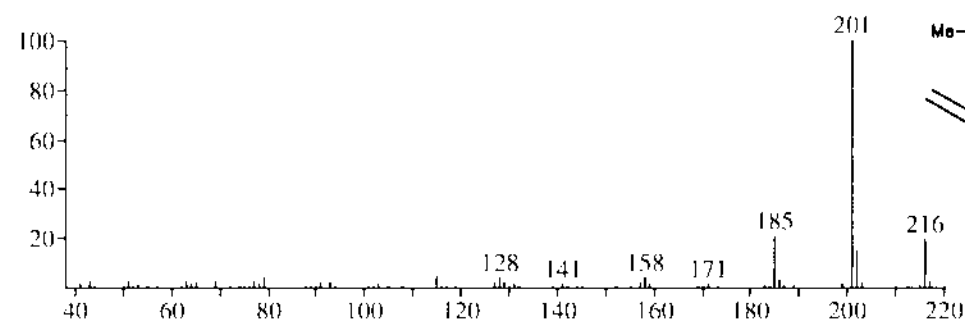
CAS#: 62458-61-1 MF: C₁₄H₁₆O₂ FW: 216 MSD LIB#: 775

CN: 2H-1-benzopyran, 6-ethenyl-7-methoxy-2,2-dimethyl-

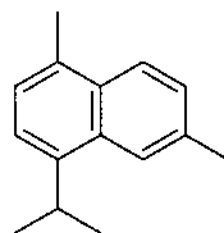
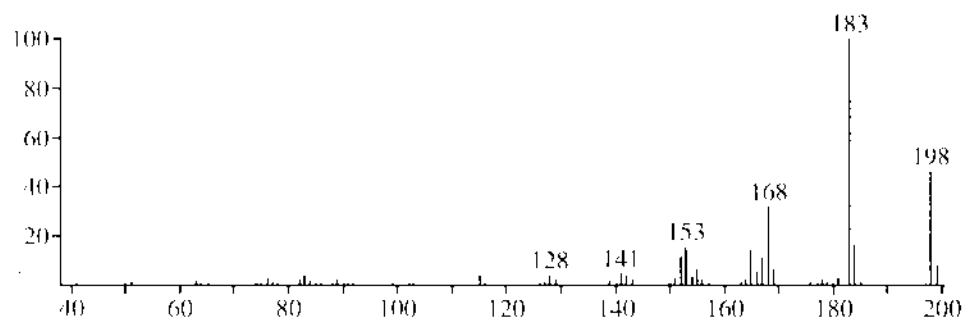
Synonyms: anhydroenecalinol

Source: *Hemizonia fitchii* ex RP Adams #3383; 0.30% *Ageratum houstonianum*,

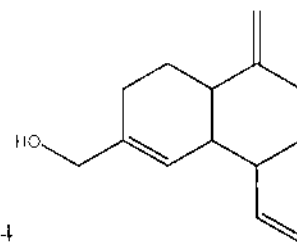
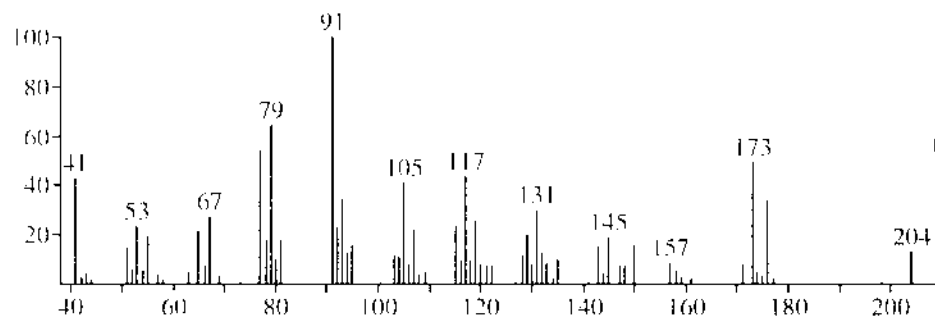
JEOR 8:129(1996)



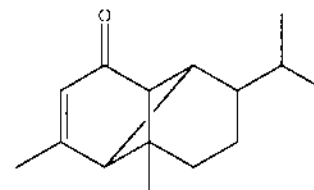
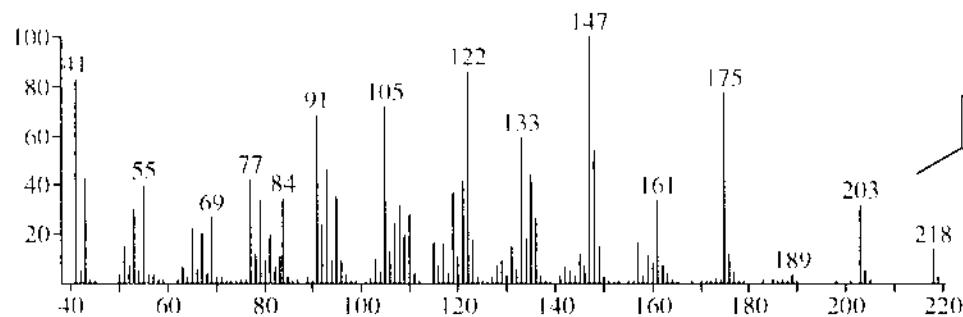
RT: 35.80 AI: 1675 KI: 1676 **Cadalene**
 CAS#: 483-78-3 MF: C₁₅H₁₈ FW: 198 MSD LIB#: 1343
 CN: naphthalene, 1,6-dimethyl-4-(1-methylethyl)-
 Synonyms: cadalin
 Source: Port oxford cedar C15s ex C.A. McDaniel



RT: 35.80 AI: 1675 KI: 1676 **Khusilol**
 CAS#: 3877-79-0 MF: C₁₄H₂₀O FW: 204 MSD LIB#: 1564
 CN: 2-naphthalenemethanol, 8-ethenyl-3,4,4a,5,6,7,8,8a-octahydro-5-methylene-
 Synonyms: none
 Source: vetiver cv. Greenfield root oil ex. Hugh Popenoe, FL



RT: 35.83 AI: 1676 KI: 1677 **Mustakone**
 CAS#: 1209-91-2 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 1842
 CN: tricyclo(4.4.0.0^{2,7})dec-4-en-3-one, 1,5-dimethyl-8-(1-methylethyl)-, stereoisomer
 Synonyms: none
 Source: *Cyperus maculatus* root oil ex J.-M. Bessiere



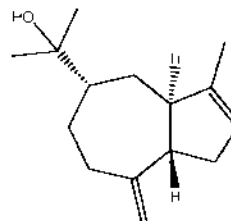
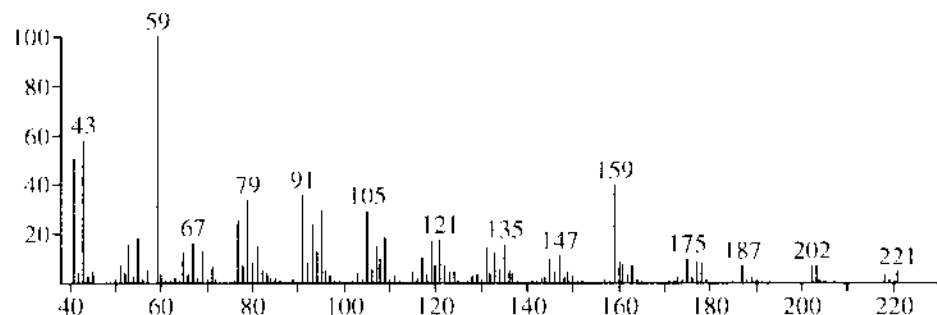
RT: 35.84 AI: 1676 KI: 1677 **Guaia-3,10(14)-dien-11-ol**

CAS#: 176435-26-0 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1483

CN: 5-azulenemethanol, 1,3a,4,5,6,7,8,8a-octahydro- α,α ,3-trimethyl-8-methylene-, (3aR-(3 α ,5 α ,8 α))-

Synonyms: none

Source: *Thuja occidentalis* wood oil ex Guy Collin



RT: 35.85 AI: 1676 KI: 1677 **Dodecalactone < γ ->**

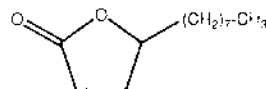
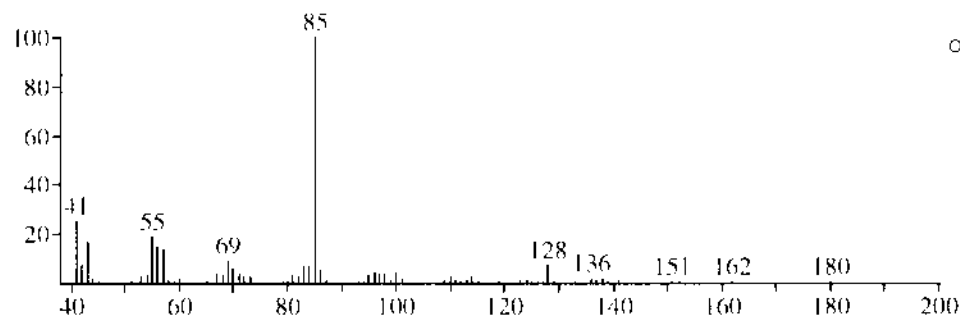
CAS#: 2305-05-7 MF: C₁₂H₂₂O₂ FW: 198 MSD LIB#: 623

CN: 2(3H)-furanone, dihydro-5-octyl-

Synonyms: 4-dodecanolide; γ -octyl- γ -butyrolactone

Source: ref. cpd. ex P. Weyerstahl; 0.50% *Psidium guajava*, FEJ 6:143(1991);

0.36% *Osmanthus fragrans*; 0.24% *Mandragora officinarum*



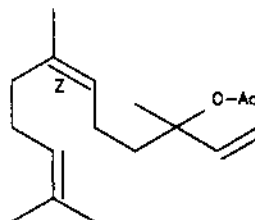
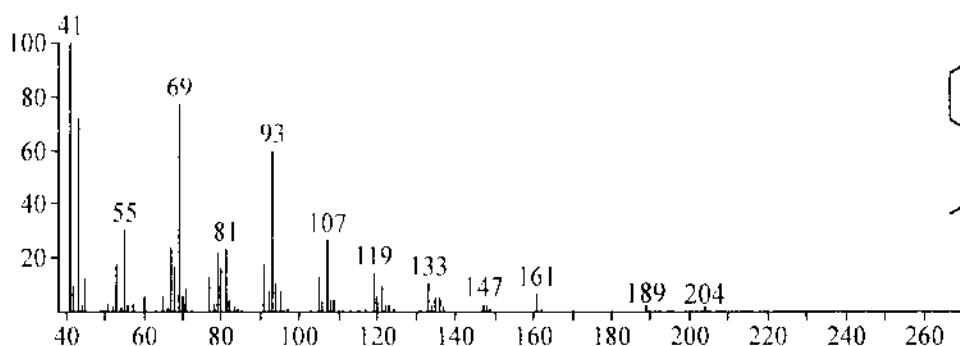
RT: 35.85 AI: 1676 KI: 1677 **Nerolidyl acetate <(Z)->**

CAS#: 91050-14-5 MF: C₁₇H₂₈O₂ FW: 264 MSD LIB#: 1142

CN: 1,6,10-dodecatrien-3-ol, 3,7,11-trimethyl-, acetate, (Z)-

Synonyms: none

Source: acetylation of (Z)-nerolidol(6251)



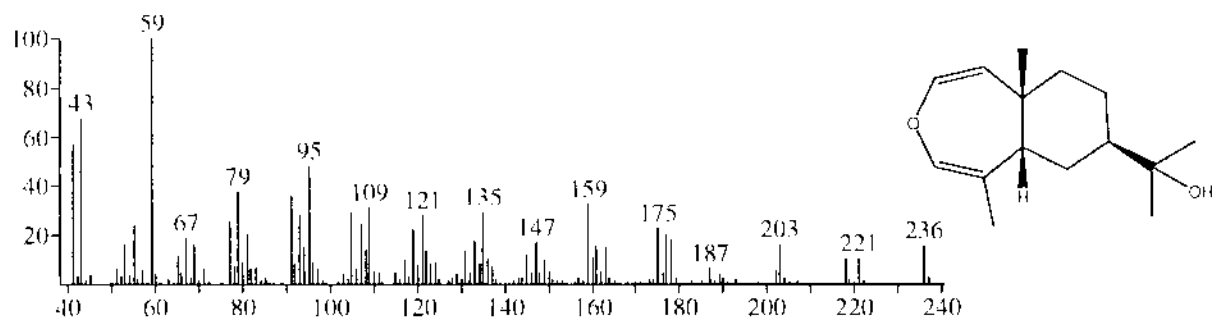
RT: 35.85 AI: 1676 KI: 1677 **Occidenol**

CAS#: 27548-56-7 MF: C₁₅H₂₄O₂ FW: 236 MSD LIB#: 1481

CN: 3-benzoxepin-7-methanol, 5a,6,7,8,9,9a-hexahydro- $\alpha,\alpha,5,9a$ -tetramethyl-, (5a α ,7 α ,9a α)-

Synonyms: occidiol

Source: *Thuja occidentalis* foliage oil ex Guy Collin



RT: 35.87 AI: 1677 KI: 1678 **Apiole**

CAS#: 523-80-8 MF: C₁₂H₁₄O₄ FW: 222 MSD LIB#: 1234

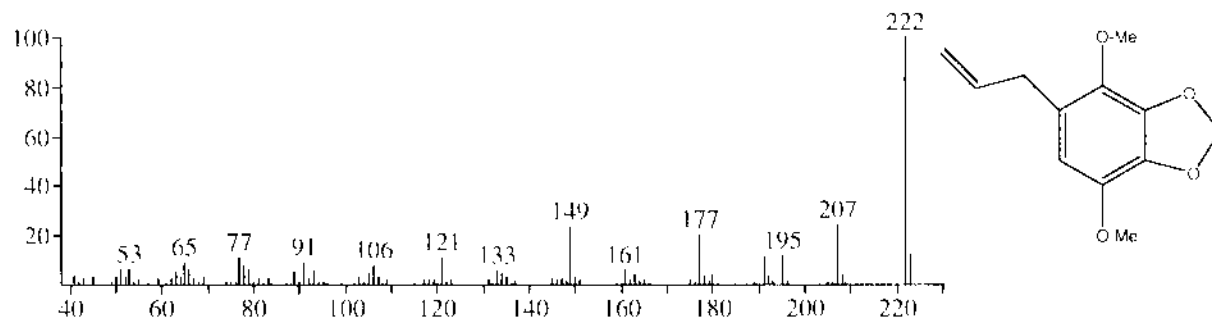
CN: 1,3-benzodioxole, 4,7-dimethoxy-5-(2-propenyl)-

Synonyms: parsley apiole; paitoline; parsley camphor

Source: distilled fresh parsley leaf oil; 47.50% *Petroselinum hortense* (France),

JEOR 3:425(1991); 36.69% *Petroselinum hortense*;

36.30% *Petroselinum hortense* (Egypt)



RT: 35.87 AI: 1677 KI: 1678 **Foeniculin**

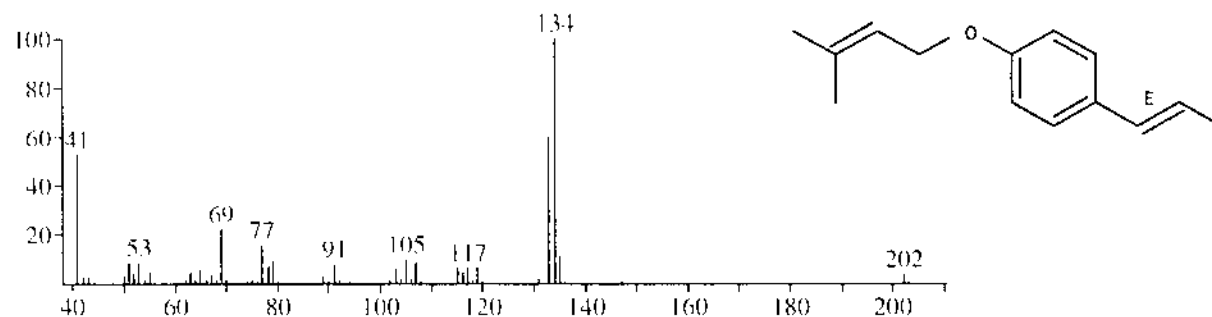
CAS#: 78259-41-3 MF: C₁₄H₁₈O FW: 202 MSD LIB#: 1432

CN: benzene, 1-((3-methyl-2-butenyl)oxy)-4-(1-propenyl)-, (E)-

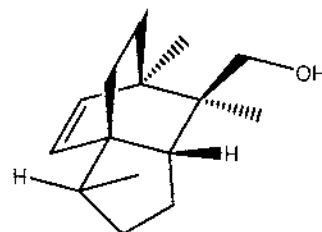
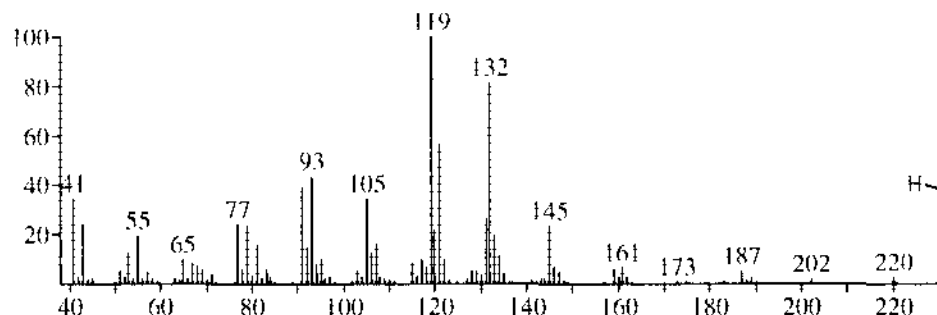
Synonyms: none

Source: Star anis seed oil, Jian-Qin Cu: 14.56% *Illicium verum* (China),

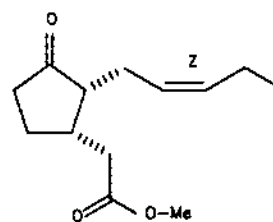
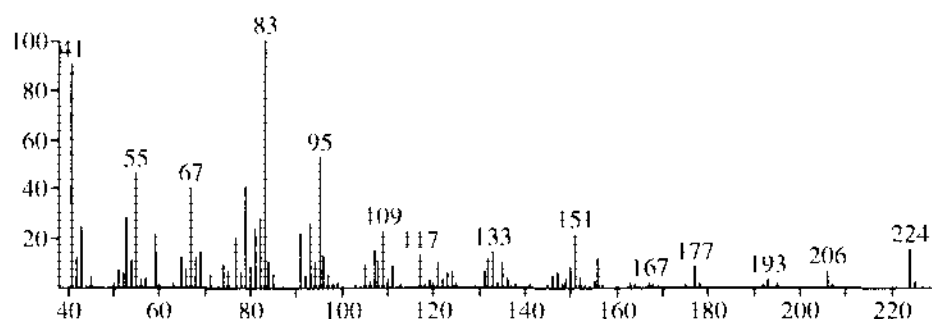
JEOR 2:91(1990); 0.80% *Foeniculum vulgare*; 0.55% *Illicium verum* (Vietnam)



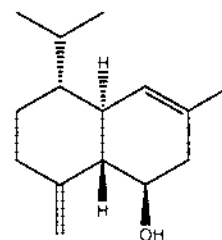
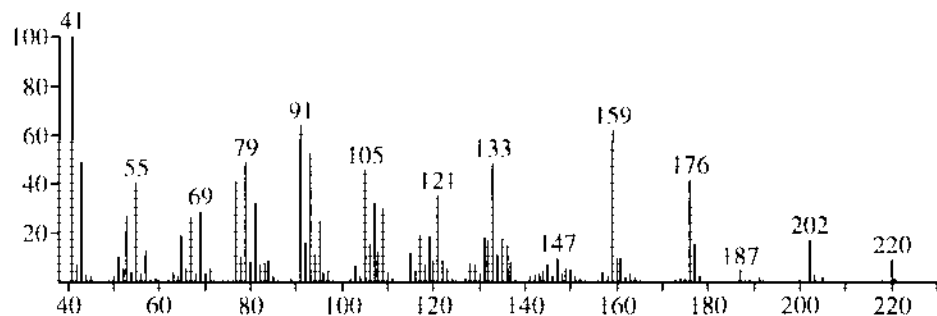
RT: 35.89 AI: 1677 KI: 1678 **Helifolenol B**
 CAS#: 000-00-0 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 771
 CN: not assigned
 Synonyms: none
 Source: ref. cpd. ex P. Weyerstahl



RT: 35.91 AI: 1678 KI: 1679 **Methyl epi-jasmonate <(Z)->**
 CAS#: 42536-97-0 MF: C₁₃H₂₀O₃ FW: 224 MSD LIB#: 1100
 CN: cyclopentaneacetic acid, 3-oxo-2-(2-pentenyl)-, methyl ester.(1 α ,2 α .(Z))-
 Synonyms: none
 Source: ref. cpd. ex K. Moriai, Japan



RT: 35.95 AI: 1679 KI: 1680 **Khusinol**
 CAS#: 24268-34-6 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 970
 CN: 1-naphthalenol,1,2,4a,5,6,7,8,8a-octahydro-3-methyl-8-methylene-5-(1-methylethyl)-,
 (1R-(1 α ,4 α ,5 β ,8 α))-
 Synonyms: none
 Source: ref. cpd. ex E. von Rudloff



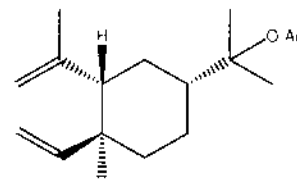
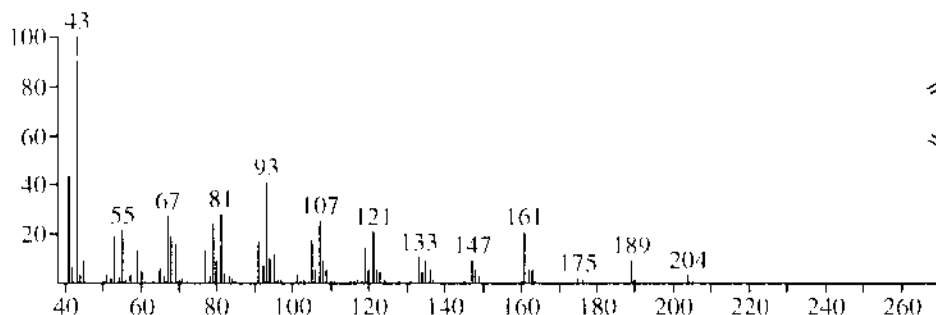
RT: 35.97 AI: 1680 KI: 1680 **Elemol acetate**

CAS#: 60031-93-8 MF: C₁₇H₂₈O₂ FW: 264 MSD LIB#: 652

CN: cyclohexanemethanol, 4-ethenyl- $\alpha,\alpha,4$ -trimethyl-3-(1-methylethenyl)-, acetate, (1R-(1 $\alpha,3\alpha,4\beta$))-

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl



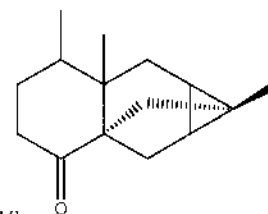
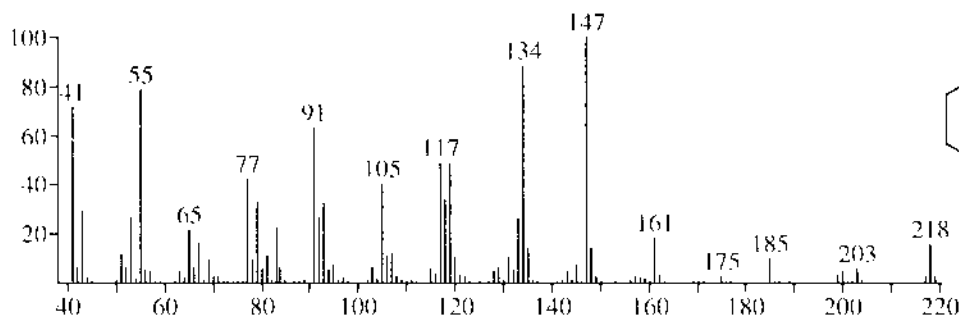
RT: 36.00 AI: 1680 KI: 1681 **Ishwarone**

CAS#: 22471-56-3 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 471

CN: 1,2a-methano-2aH-cyclopropa(b)naphthalene-3(1H)-one, octahydro-1,6,6a-trimethyl-, (1S-(1 $\alpha,1\alpha\beta,2\alpha\alpha,6\beta,6\alpha\beta,7\alpha\beta$))-

Synonyms: none

Source: *Corallacarpus epigaeus* oil ex A. Velasco-Negueruela



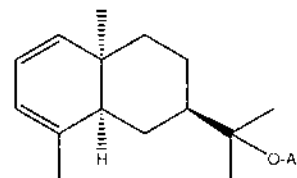
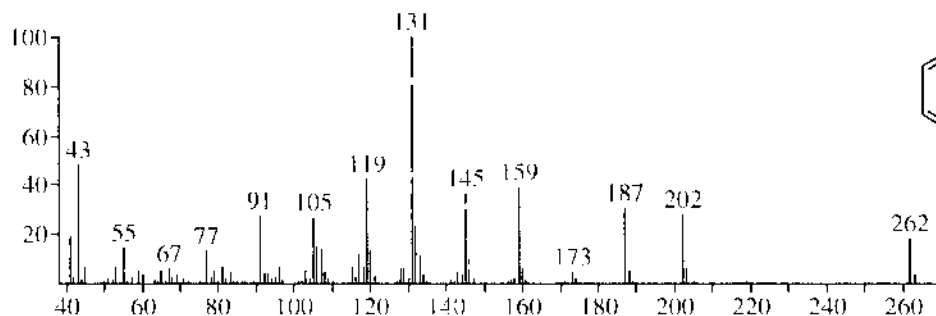
RT: 36.02 AI: 1681 KI: 1682 **Occidentalol acetate**

CAS#: 346608-97-7 MF: C₁₇H₂₆O₂ FW: 262 MSD LIB#: 1194

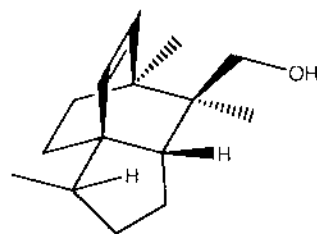
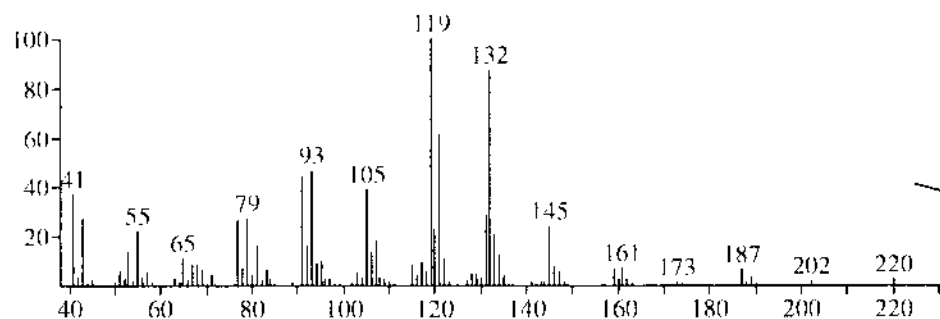
CN: not assigned

Synonyms: none

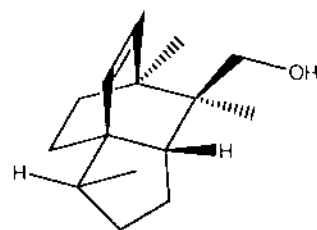
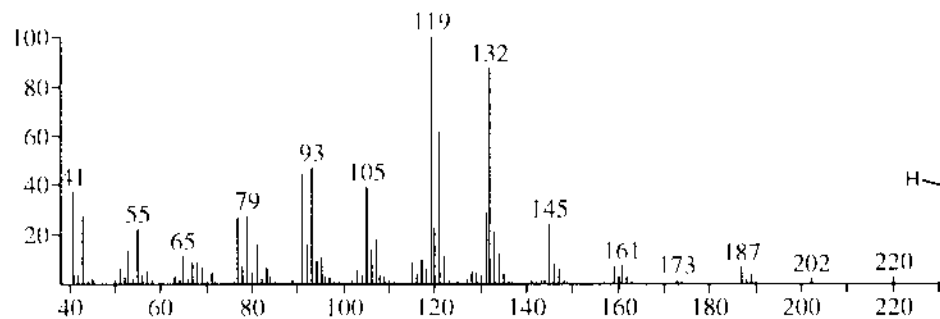
Source: acetylation of occidentalol(6099)



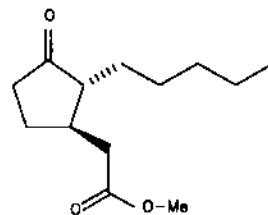
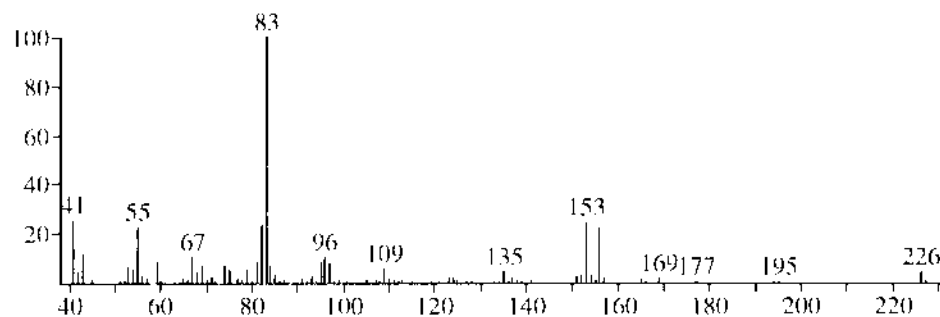
RT: 36.03 AI: 1681 KI: 1682 **Helifolenol C**
 CAS#: 000-00-0 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 772
 CN: not assigned
 Synonyms: none
 Source: ref. cpd. ex P. Weyerstahl



RT: 36.03 AI: 1681 KI: 1682 **Helifolenol D**
 CAS#: 000-00-0 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 773
 CN: not assigned
 Synonyms: none
 Source: ref. cpd. ex P. Weyerstahl



RT: 36.05 AI: 1682 KI: 1682 **Methyl dihydro jasmonate <trans->**
 CAS#: 2630-39-9 MF: C₁₃H₂₂O₃ FW: 226 MSD LIB#: 1093
 CN: cyclopentaneacetic acid, 3-oxo-2-pentyl-, methyl ester, (1R-trans)-
 Synonyms: hedione
 Source: Firmenich ex Art Tucker



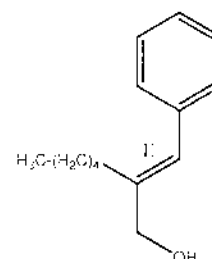
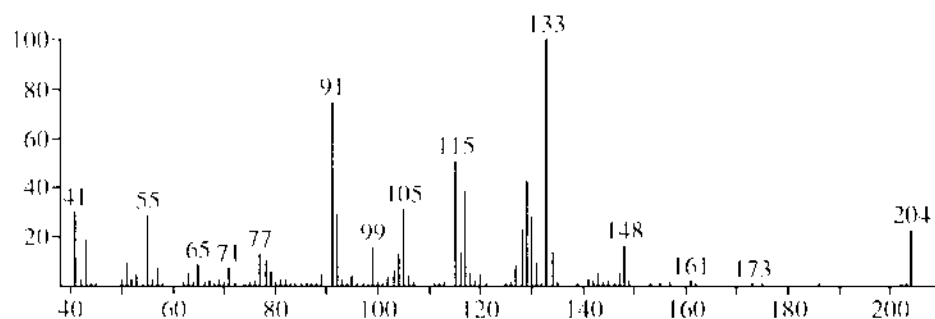
RT: 36.06 AI: 1682 KI: 1683 **Anyl cinnamyl alcohol < α ->**

CAS#: 184900-07-0 MF: C₁₄H₂₀O FW: 204 MSD LIB#: 2179

CN: 1-heptanol, 2-(phenylmethylene)-, (E)-

Synonyms: none

Source: Bedoukian Res.



RT: 36.12 AI: 1683 KI: 1684 **Bisabolol <epi- α ->**

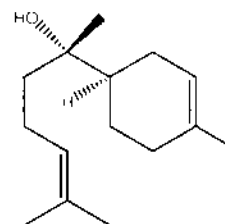
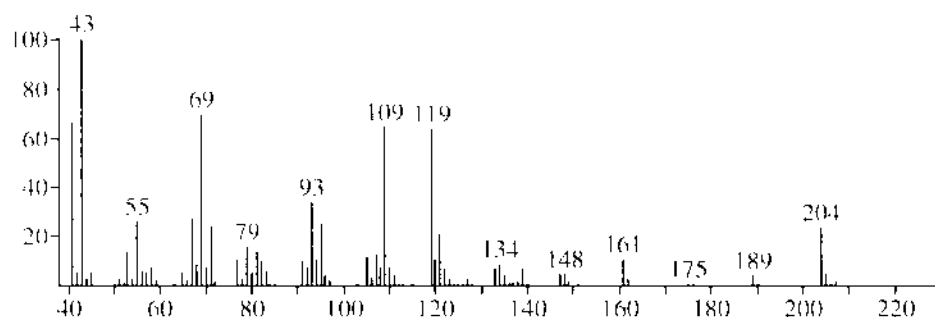
CAS#: 23178-88-3 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 296

CN: 3-cyclohexene-1-methanol, α ,4-dimethyl- α -(4-methyl-3-pentenyl)-, (α R, 1 R)-

Synonyms: none

Source: Dragoco, E. J. Brunke; 0.70% *Juniperus rigida* (China), JEOR 7:49(1995);

0.30% *Vitex agnus-castus* inflorescence; 0.20% *Vitex agnus-castus* fruit



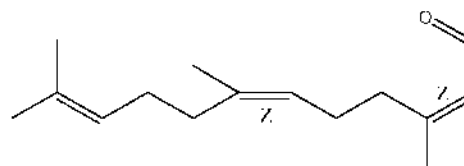
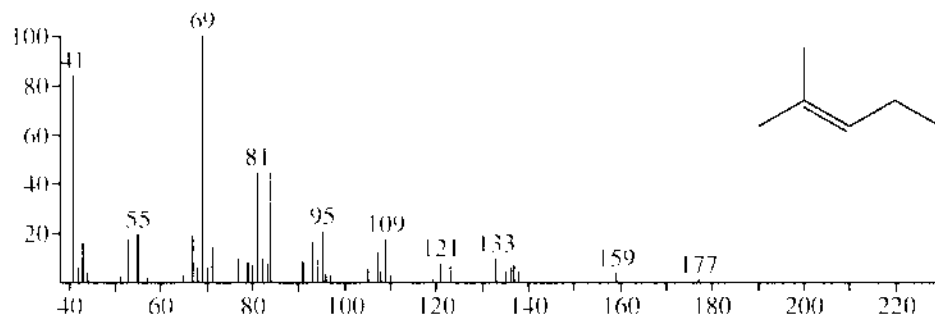
RT: 36.13 AI: 1684 KI: 1684 **Farnesal <(2Z,6Z)->**

CAS#: 3790-68-9 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1950

CN: 2,6,10-dodecatrienal, 3,7,11-trimethyl-, (2Z,6Z)-

Synonyms: none

Source: H & R Chem. ex. P. Weyerstahl; 2.30% *Scleria striatinux* (rhizome), JEOR 8:59(1996)



RT: 36.14 AI: 1684 KI: 1685 **Bisabolone oxide A <α>**

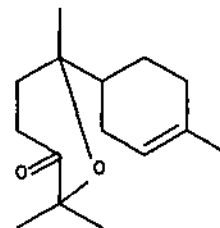
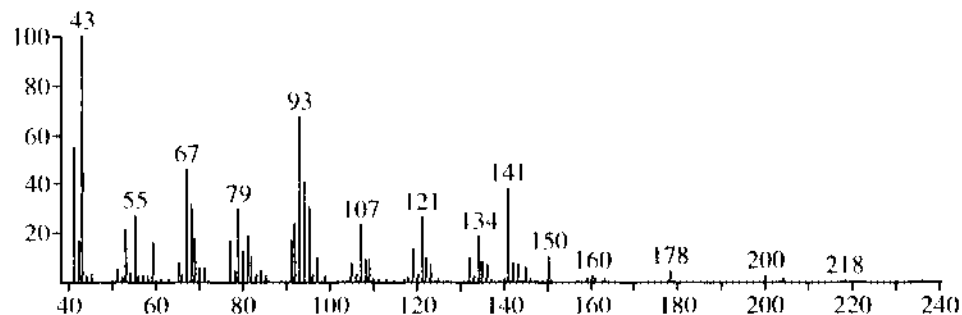
CAS#: 58985-73-2 MF: C₁₅H₂₄O₂ FW: 236 MSD LIB#: 430

CN: not assigned

Synonyms: none

Source: Chamomile oil, Aromatics Intl. ex Art Tucker: 57.68% *Chamomilla recutita* (Germany),

FFI 8:115(1993); 50.42% *Chamomilla recutita* (Italy); 46.11% *Chamomilla recutita* (Argentina)



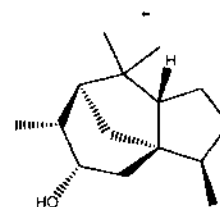
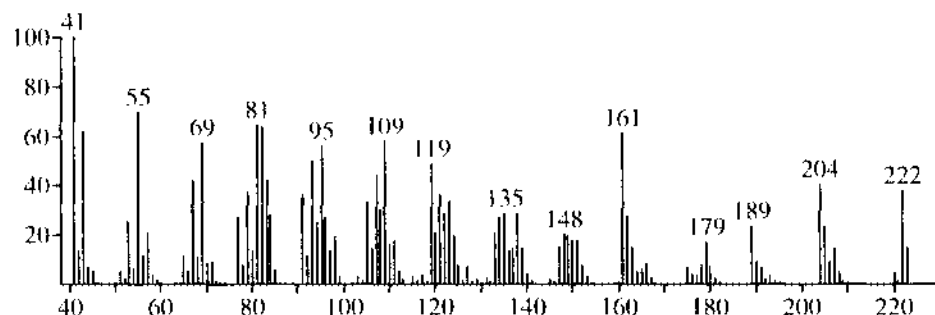
RT: 36.14 AI: 1684 KI: 1685 **Cedranol <5-neo>**

CAS#: 13567-44-7 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 401

CN: 1H-3a,7-methanoazulen-5-ol, octahydro-3,6,8,8-tetramethyl-, (3R-(3α,3aβ,5β,6β,7β,8α))-

Synonyms: 8-β-cedran-9-α-ol

Source: cedrane deriv. ex Joseph-Nathan, J. Natl. Prods. 47:924(1984)



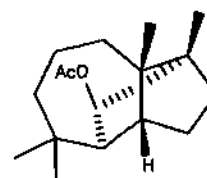
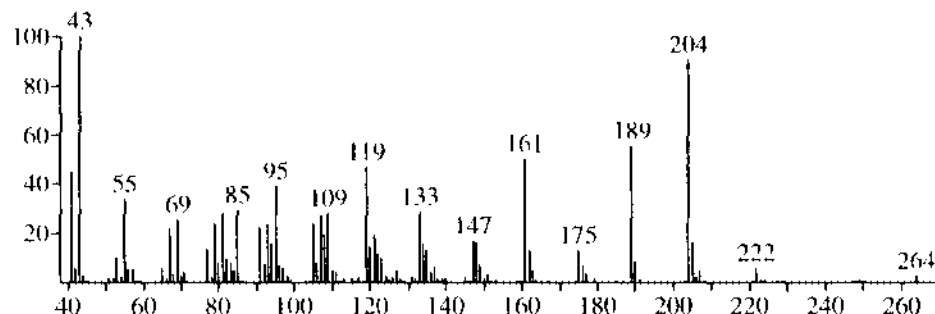
RT: 36.16 AI: 1684 KI: 1685 **Longiborneol acetate (=Juniperol acetate)**

CAS#: 36204-27-0 MF: C₁₇H₂₈O₂ FW: 264 MSD LIB#: 1024

CN: 1,4-methanoazulen-9-ol, decahydro-1,5,5,8a-tetramethyl-, acetate, (1R-(1α,3aβ,4α,8aβ,9S*))-

Synonyms: juniperol acetate

Source: acetylation of juniperol (6077)



RT: 36.17 AI: 1685 KI: 1685 **Bisabolol <α>**

CAS#: 23089-26-1 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 302

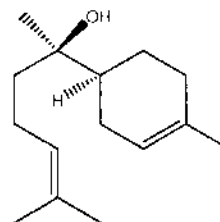
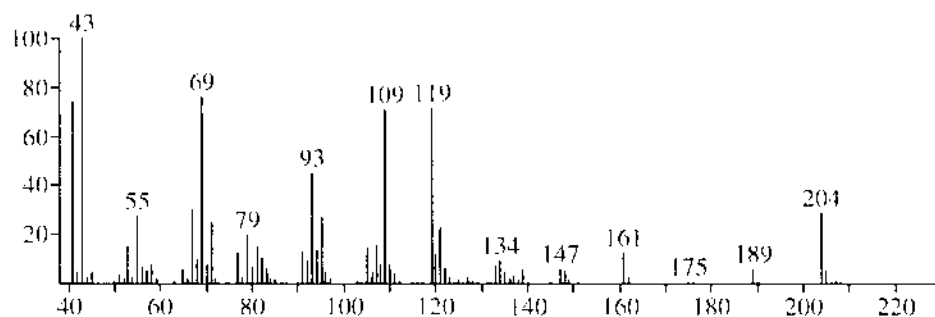
CN: 3-cyclohexene-1-methanol, α,4-dimethyl α-(4-methyl-3-pentenyl)-, (αS,1S)-

Synonyms: dragosantol

Source: Roth Chem. ex Keith Harkiss; 55.53% *Artemisia desertorum*,

p. 277, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong (1993);

26.00% *Populus deltoides*; 22.98% *Aristolochia impudica* (leaf)



RT: 36.18 AI: 1685 KI: 1686 **Germacre-4(15),5,10(14)-trien-1-α-ol**

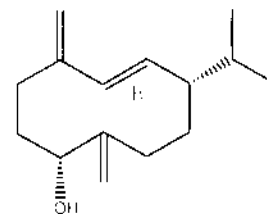
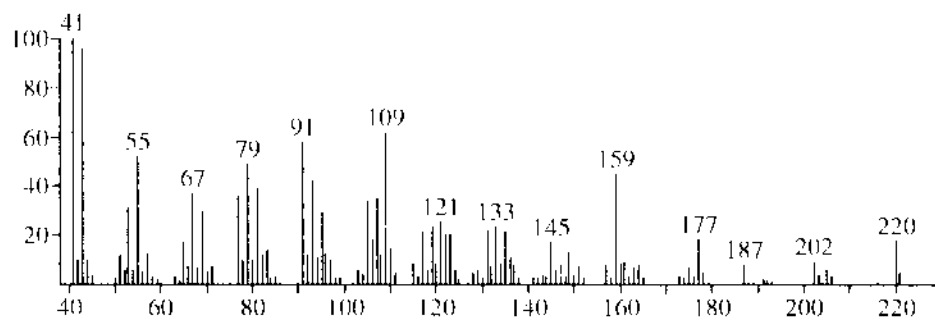
CAS#: 81968-62-9 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1718

CN: 5-cyclodecen-1-ol, 4,10-bis(methylene)-7-(1-methylethyl)-

(1R,5E,7S)-

Synonyms: none

Source: *Aglaia odorata* oil ex P. Weyerstahl



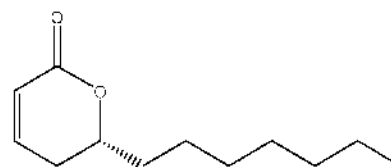
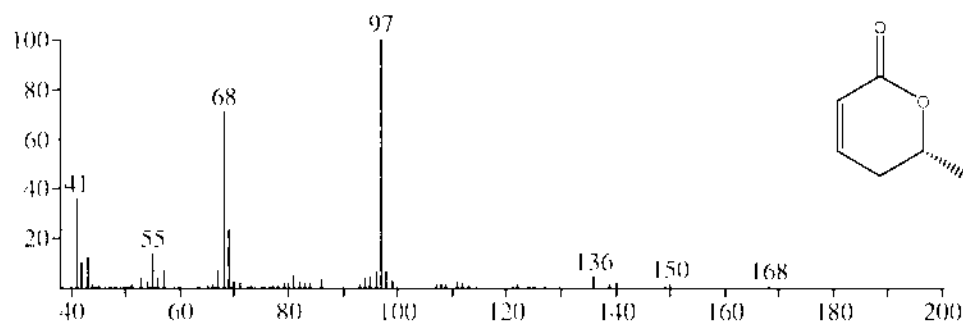
RT: 36.20 AI: 1685 KI: 1686 **Massoia dodecalactone**

CAS#: 152398-49-7 MF: C₁₂H₂₀O₂ FW: 196 MSD LIB#: 1809

CN: 2H-pyran-2-one,6-heptyl-5,6-dihydro-, (6R)-

Synonyms: none

Source: ref. epl. ex Ian Southwell



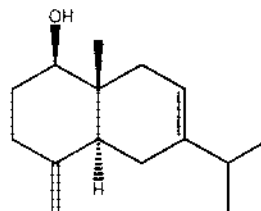
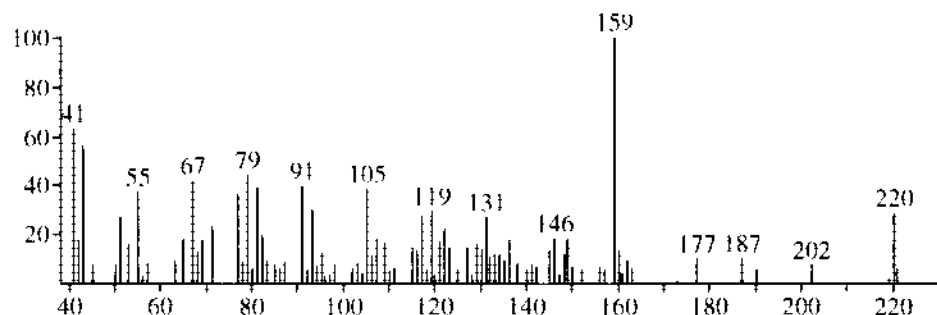
RT: 36.27 Af: 1687 Kf: 1688 **Eudesma-4(15),7-dien-1 β -ol (impure)**

CAS#: 119120-23-9 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1428

CN: 1-naphthalenol, 1,2,3,4,4a,5,8,8a-octahydro-8a-methyl-4-methylene-6-(1-methylethyl)-, (1R,4aS,8aR)-

Synonyms: none

Source: *Solidago graminifolia* ex Peter Weyerstahl



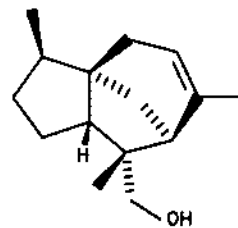
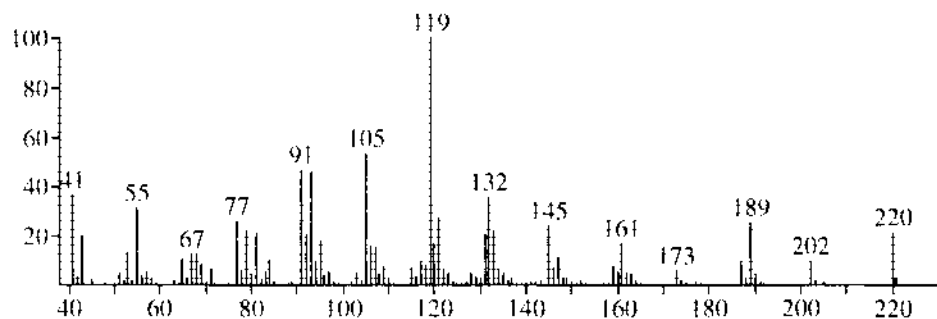
RT: 36.30 Af: 1688 Kf: 1689 **Cedren-13-ol <8->**

CAS#: 18319-40-9 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 942

CN: 1H-3a,7-methanoazulene-8-methanol, 2,3,4,7,8,8a-hexahydro-3,6,8-trimethyl-, (3R-(3 α ,3 β ,7 β ,8 β ,8 α))-

Synonyms: none

Source: *Juniperus recurva* wood oil ex J Oda, Agric. Biol. Chem. 41:201(1977)



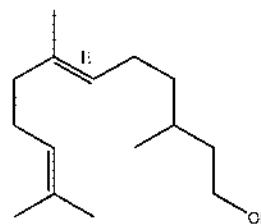
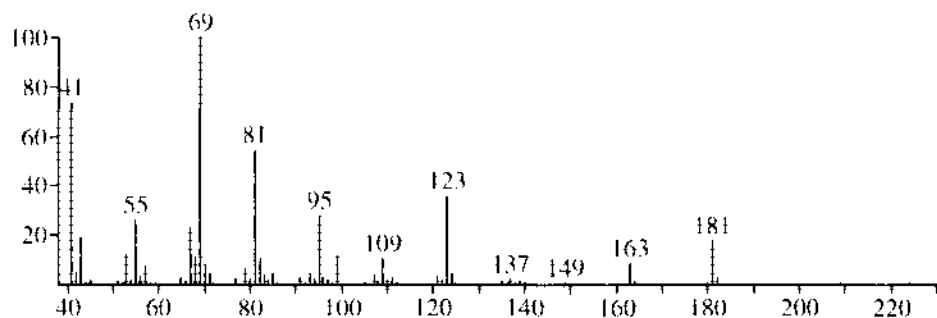
RT: 36.31 Af: 1688 Kf: 1689 **Farnesol <2,3-dihydro->**

CAS#: 27745-36-4 MF: C₁₅H₂₈O FW: 224 MSD LIB#: 1721

CN: 6,10-dodecadien-1-ol, 3,7,11-trimethyl-, (3S,6E)-

Synonyms: terrestrol

Source: *Leptospermum myrifolium* ex JJ Brophy



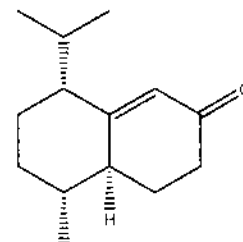
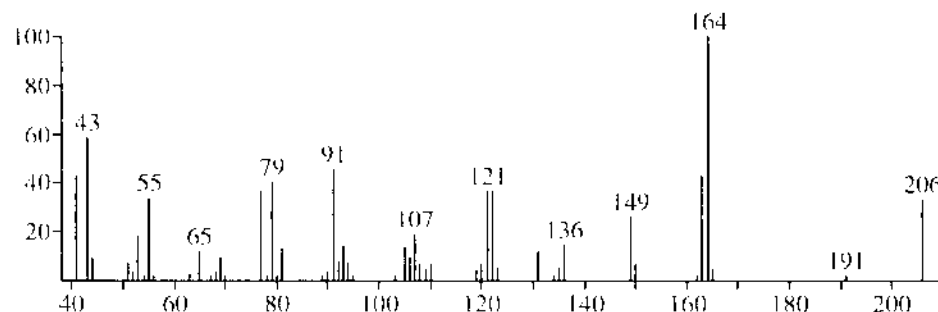
RT: 36.31 AI: 1688 KI: 1689 **Murol-5-en-4-one <cis-14-nor>**

CAS#: 63180-33-6 MF: C₁₄H₂₂O FW: 206 MSD LIB#: 509

CN: 2(3H)-naphthalenone, 4,4a,5,6,7,8-hexahydro-5-methyl-8-(1-methylethyl)-, (4aS,5R,8R)-

Synonyms: none

Source: *Cupressus bakeri* leaf oil ex Larry Cool



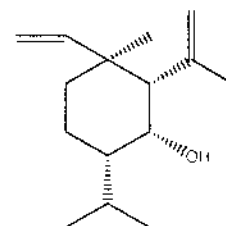
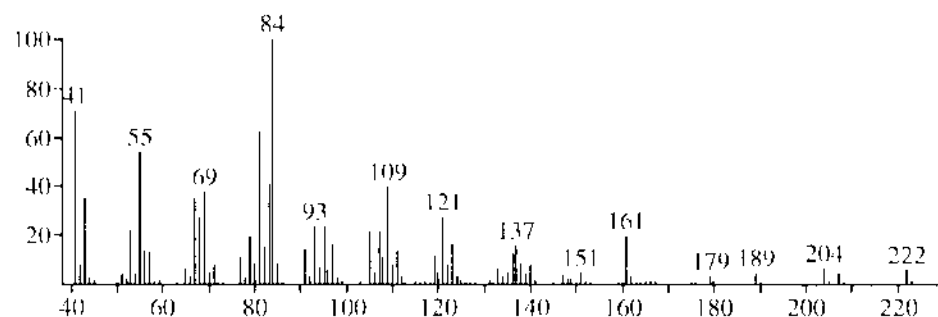
RT: 36.31 AI: 1688 KI: 1689 **Shyobunol**

CAS#: 35727-45-8 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1858

CN: cyclohexanol, 3-ethenyl-3-methyl-2-(1-methylethenyl)-6-(1-methylethyl)-, (1R,2S,3S,6S)-

Synonyms: none

Source: *Chenopodium schardenerum* oil ex Art Tucker



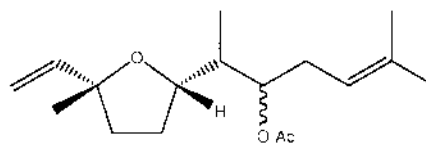
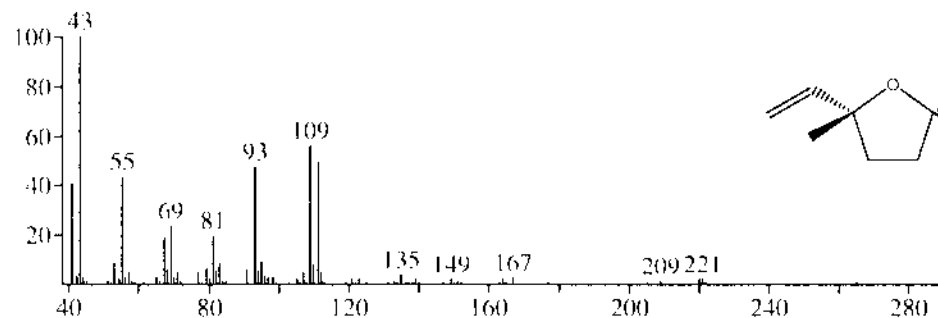
RT: 36.32 AI: 1689 KI: 1689 **Davanol acetate**

CAS#: 000-00-0 MF: C₁₇H₃₀O₃ FW: 282 MSD LIB#: 558

CN: not assigned

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl



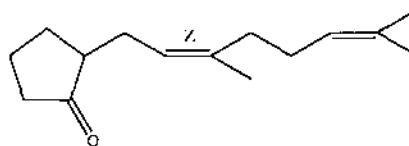
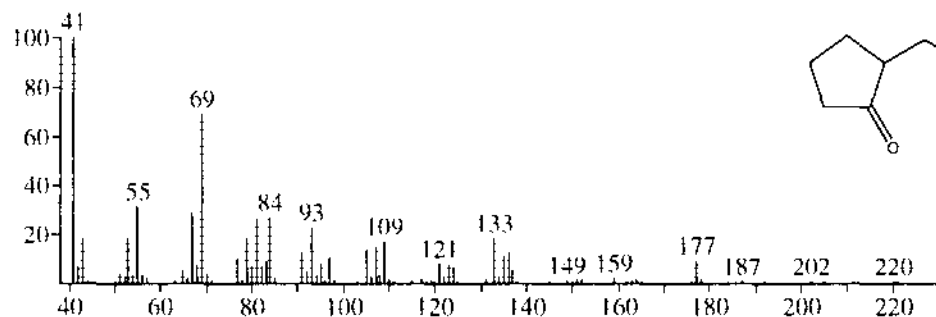
RT: 36.33 AI: 1689 KI: 1689 **Apritone <(Z)->**

CAS#: 68133-79-9 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 189

CN: cyclopentanone, 2-(3,7-dimethyl-2,6-octadienyl)-, (Z)-

Synonyms: none

Source: Bedoukian Res. ex Art Tucker



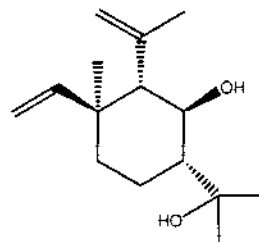
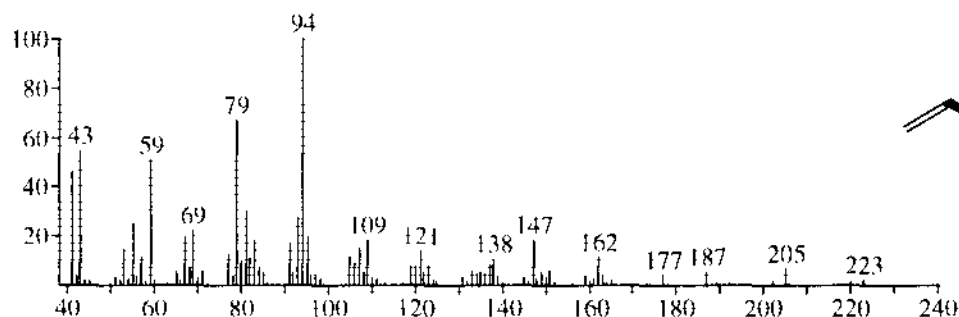
RT: 36.34 AI: 1689 KI: 1690 **Botrydiol**

CAS#: 67996-32-1 MF: C₁₅H₂₆O₂ FW: 238 MSD LIB#: 1578

CN: cyclohexanemethanol, 4-ethenyl-2-hydroxy- α,α ,4-trimethyl-3-(1-methylethenyl)-, (1R,2R,3S,4S)-

Synonyms: none

Source: *Chenopodium botrys* ex Vasu Dev



RT: 36.37 AI: 1690 KI: 1690 **Bergamotol <(Z)- α -trans->**

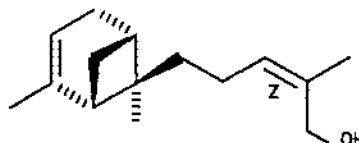
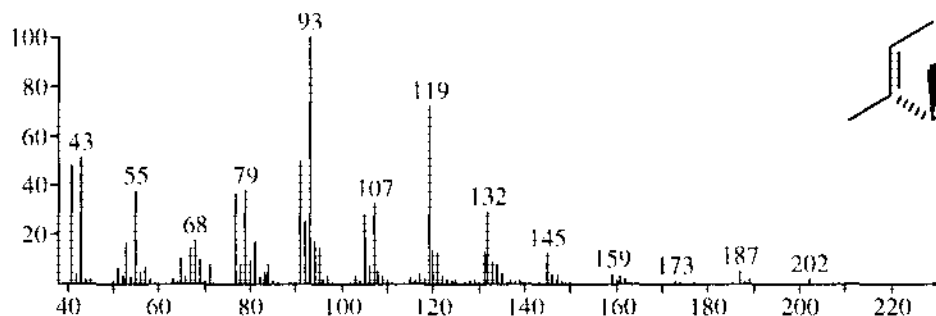
CAS#: 88034-74-6 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1384

CN: 2-penten-1-ol, 5-(2,6-dimethylbicyclo(3,1,1)hept-2-en-6-yl)-2-methyl-, (1S-(1 α ,5 α ,6 α (Z))-

Synonyms: none

Source: Sandalwood oil ex Brian Lawrence; 3.90% *Santalum album*,

Dragoco Rept. 107(1988); 2.00% *Hyptis suaveolens*



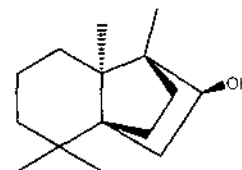
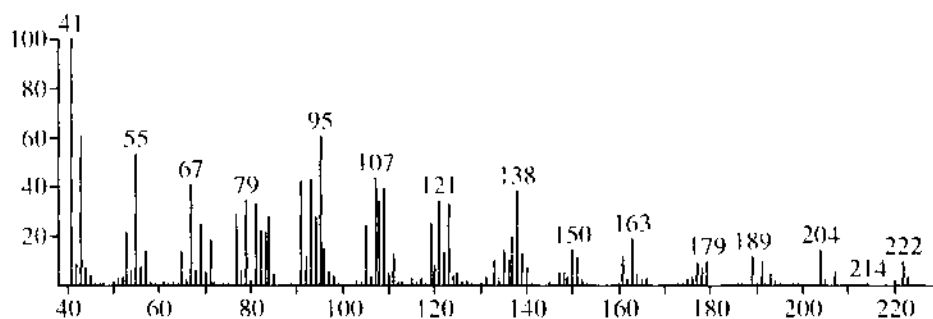
RT: 36.44 AI: 1692 KI: 1692 **Junicedranol**

CAS#: 168180-13-0 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 962

CN: 1,3a-ethano-3aH-inden-2-ol, octahydro-1,4,4,7a-tetramethyl-, (1R,2S,3aR,7aR)-

Synonyms: none

Source: *Juniperus thurifera* wood oil, Junicedrol fraction, AF Barrero



RT: 36.45 AI: 1692 KI: 1692 **Acorenone**

CAS#: 5956-05-8 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 18

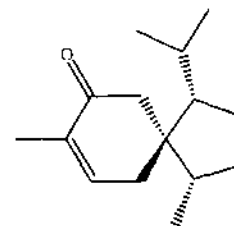
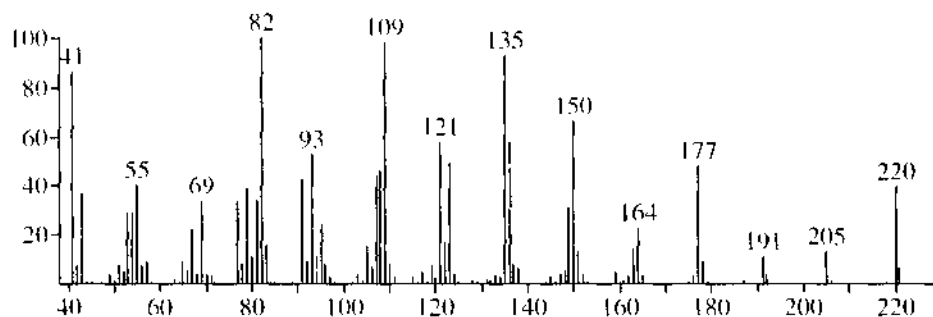
CN: spiro[4.5]dec-8-en-7-one, 1,8-dimethyl-4-(1-methylethyl)-

[1S-(1α,4α,5α)]-

Synonyms: none

Source: *Podocarpus ferrugineus* ex Don Clark: 14.40% *Acorus calamus*, JHOR 7:191(1995);

8.12% *Acorus calamus*



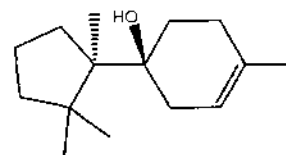
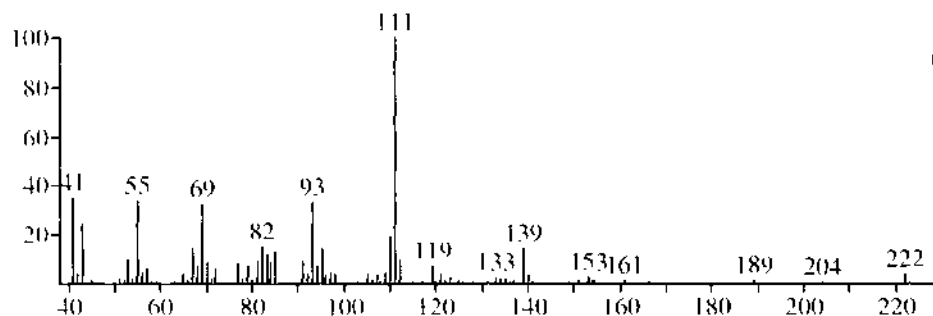
RT: 36.45 AI: 1692 KI: 1692 **Cuprenen-1-ol <4->**

CAS#: 000-00-0 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1886

CN: 2-cyclohexen-1-ol, 1-methyl-4-[(cis)-1,2,2-trimethylcyclopentyl]-, (1R,4R)-

Synonyms: none

Source: *Juniperus chinensis* wood sesquiterpenes ex Larry Cool



RT: 36.48 AI: 1693 KE: 1693 **Germacrone**

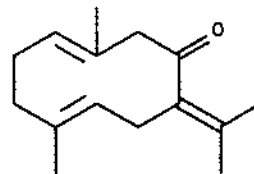
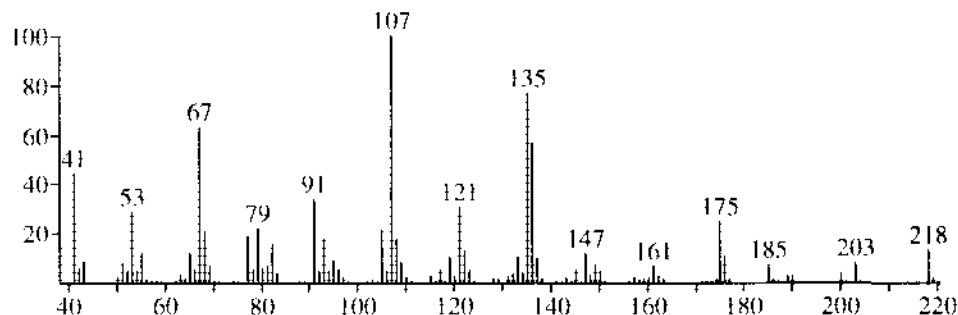
CAS#: 6902-91-6 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 745

CN: 3,7-cyclodecadien-1-one, 3,7-dimethyl-10-(1-methylethylidene)-, (E,E)-

Synonyms: germacra-3,7(11),9-trien-6-one, (E,E)-

Source: ref. cpd. ex Robert Doss, USDA: 50.00% *Geranium macrorrhizum*,

Perf. Flav. 10:39(1985); 7.86% *Schinus lentiscifolius* (leaf); 3.70% *Curcuma xanthorrhiza*



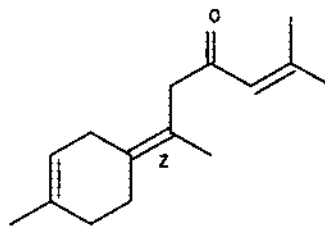
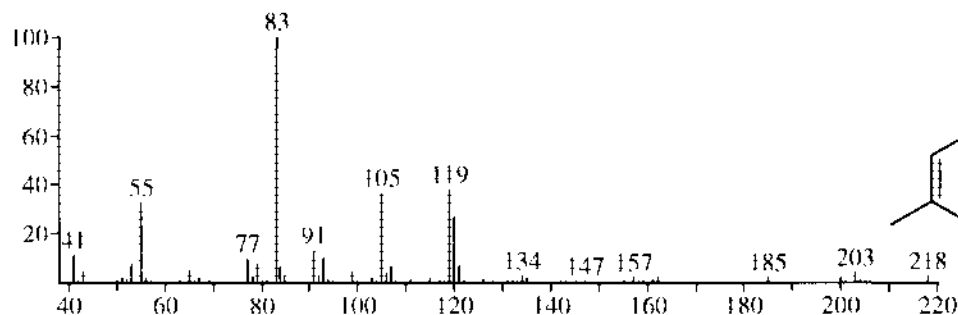
RT: 36.51 AI: 1694 KE: 1694 **Atlantone <(Z)-γ>**

CAS#: 108549-48-0 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 248

CN: 2-hepten-4-one, 2-methyl-6-(4-methyl-3-cyclohexen-1-ylidene)-, (Z)-

Synonyms: none

Source: *Artemisia vestita* oil ex P. Weyerstahl



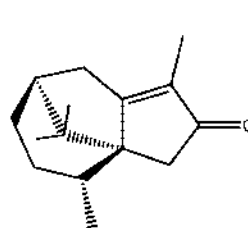
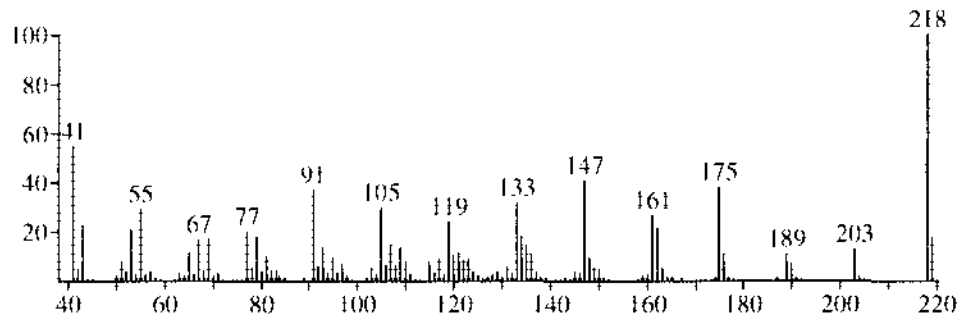
RT: 36.56 AI: 1695 KE: 1695 **Cyperotundone**

CAS#: 3466-15-7 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 1854

CN: 3H-3a,7-methanoazulen-2(4H)-one,5,6,7,8-tetrahydro-1,4,9,9-tetramethyl-(3aR,4R,7S)-

Synonyms: isopatchoulenone; cyperenone

Source: *Cyperus maculatus* root oil ex J.-M. Bessiere



RT: 36.59 AI: 1696 KI: 1696 **Geranyl tiglate**

CAS#: 7785-33-3 MF: C₁₅H₂₄O₂ FW: 236 MSD LIB#: 731

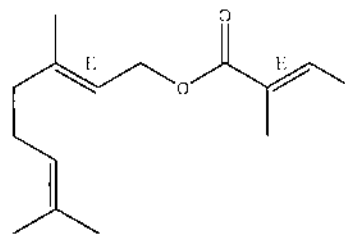
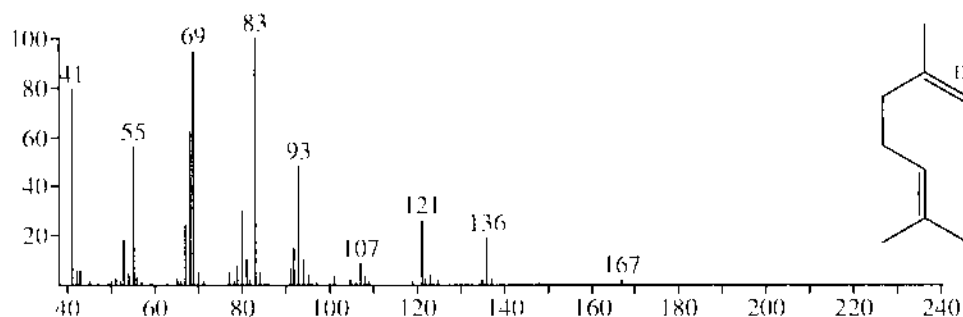
CN: 2-butenoic acid, 2-methyl-, 3,7-dimethyl-2,6-octadienyl ester, (E,E)-

Synonyms: tiglic acid, geranyl ester

Source: Geranium absolute, ex Firmenich ex AF Thomas;

2.87% *Pelargonium graveolens* (India), PAFALJ, 11-13 (Oct/Dec1987);

2.49% *Pelargonium graveolens* (Rwanda); 1.67% *Terminalia bentzoe*



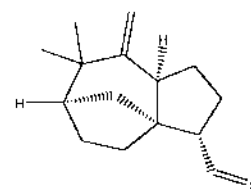
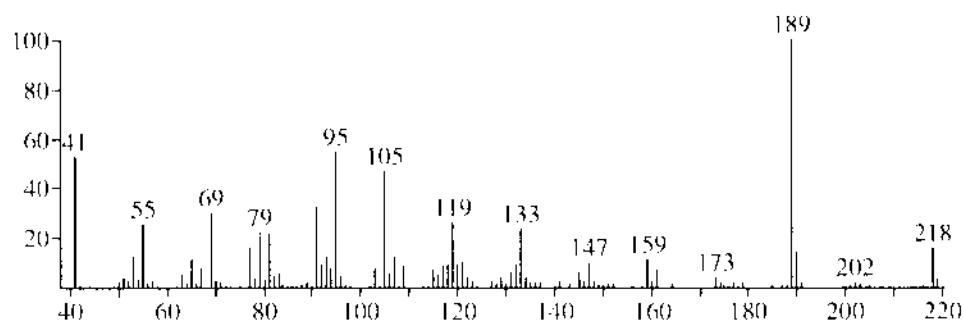
RT: 36.63 AI: 1697 KI: 1697 **Zizanal**

CAS#: 82509-29-3 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 1558

CN: 11-3a,6-methanoazulene-3-carboxyaldehyde, octahydro-7,7-dimethyl-8-methylene-, (3S-(3a,3aa,6a,8aa))-

Synonyms: none

Source: Vetiver oil, Haiti ex Texarome Inc.



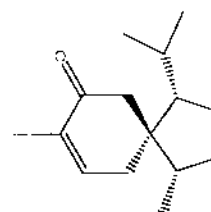
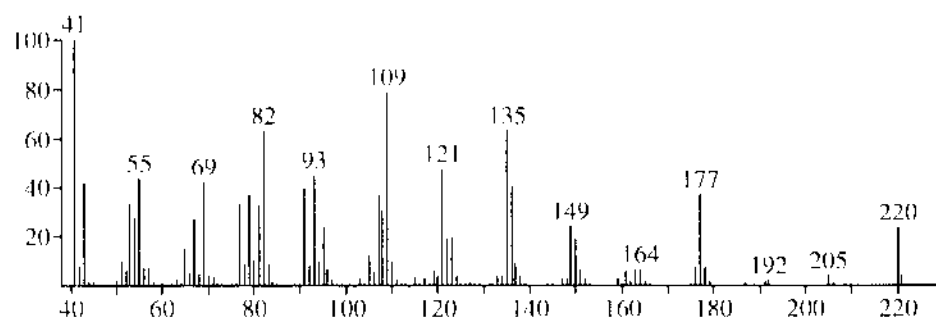
RT: 36.64 AI: 1697 KI: 1697 **Acorenone B**

CAS#: 21653-33-8 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 317

CN: spiro(4.5)dec-8-en-7-one, 1,8-dimethyl-4-(1-methylethyl)-, (1S-(1a,4a,5b))-

Synonyms: none

Source: *Bothriochloa pertusa* ex P. Weyerstahl



RT: 36.64 AI: 1697 KI: 1697 **Pentadecanone <2>**

CAS#: 2345-28-0 MF: C₁₅H₃₀O FW: 226 MSD LIB#: 925

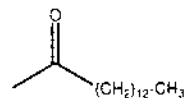
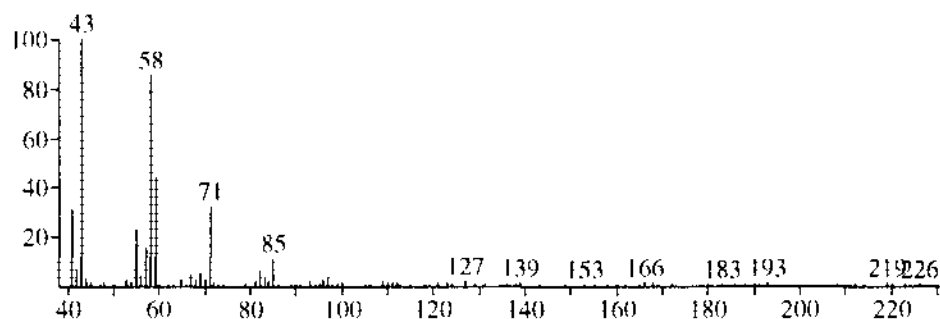
CN: 2-pentadecanone

Synonyms: 2-oxopentadecane

Source: *Juniperus oxycedrus* var. *badia*, Spain leaf oil, RP Adams #7795; 1.22% *Rosa rugosa*,

p. 57, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong (1993);

0.25% *Spartium junceum*; 0.10% *Narcissus tazetta*



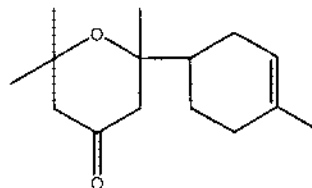
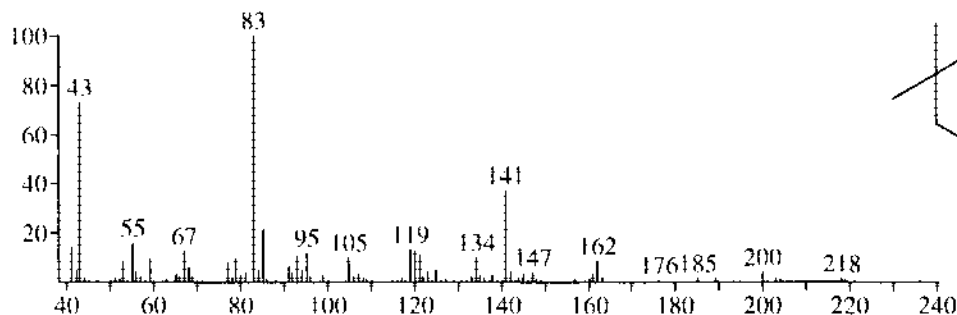
RT: 36.68 AI: 1698 KI: 1698 **Deodarone**

CAS#: 108645-55-2 MF: C₁₅H₂₄O₂ FW: 236 MSD LIB#: 247

CN: 4H-pyran-4-one, tetrahydro-2,2,6-trimethyl-6-(4-methyl-3-cyclohexen-1-yl)-

Synonyms: none

Source: *Artemisia vestita* oil ex P. Weyerstahl



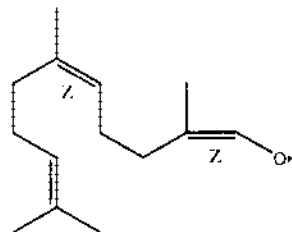
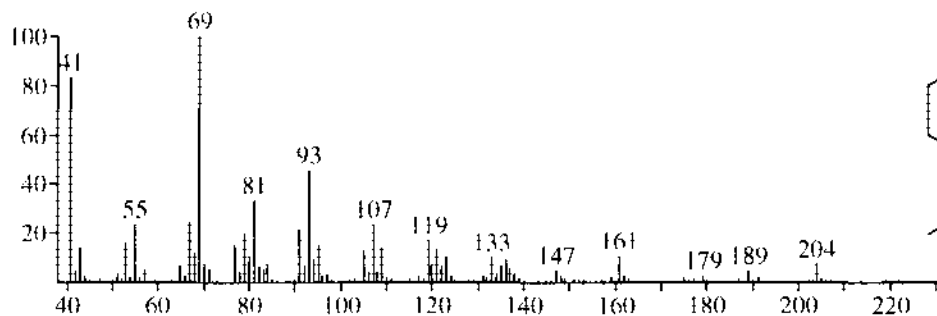
RT: 36.68 AI: 1698 KI: 1698 **Farnesol <(2Z,6Z)>**

CAS#: 16106-95-9 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 705

CN: 2,6,10-dodecatrien-1-ol, 3,7,11-trimethyl-, (Z,Z)-

Synonyms: farnesol, cis, cis-

Source: K & K Chem, ex H. Hills



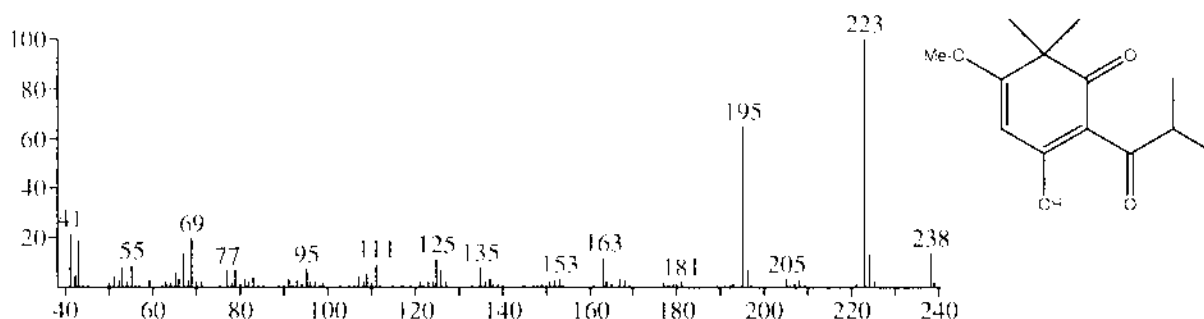
RT: 36.69 AI: 1698 KI: 1698 **Agglomerone**

CAS#: 1534-04-9 MF: C₁₃H₁₈O₄ FW: 238 MSD LIB#: 1675

CN: 2,4-cyclohexadien-1-one, 3-hydroxy-5-methoxy-6,6-dimethyl-2-(2-methyl-1-oxopropyl)-

Synonyms: none

Source: *Eucalyptus bensonii* ex J.J. Brophy



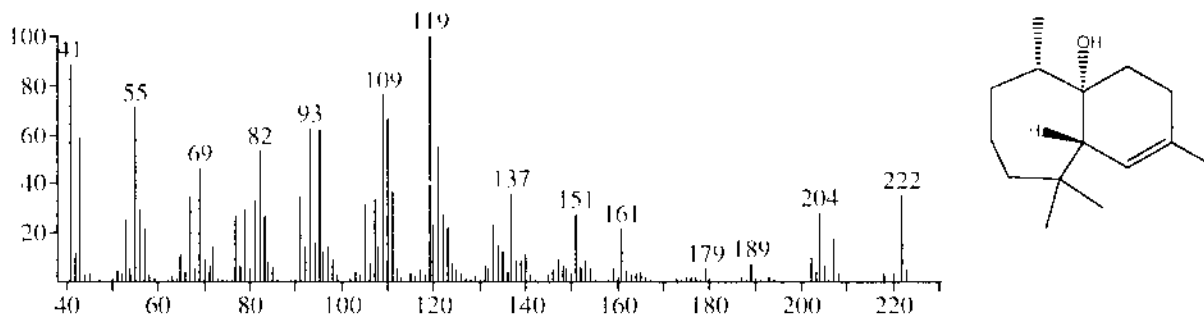
RT: 36.72 AI: 1699 KI: 1699 **Himachal-4-en-1-β-ol <11-αH>**

CAS#: 178456-49-0 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1862

CN: 4aH-benzocyclohepten-4a-ol, 3,4,5,6,7,8,9,9a-octahydro-2,5,9,9-tetramethyl-, (4aS-(4aα,5α,9aβ)-

Synonyms: none

Source: *Juniperus chinensis* wood oil ex Larry Cool



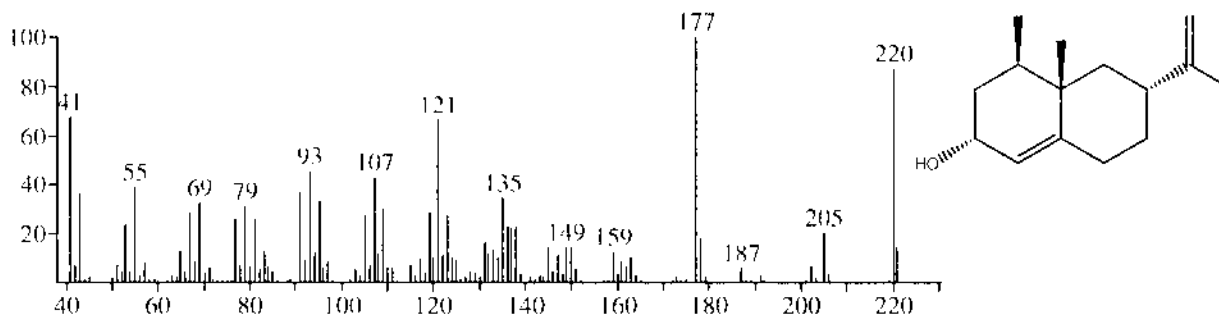
RT: 36.72 AI: 1699 KI: 1699 **Nootkatol <epi>**

CAS#: 50763-66-1 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1773

CN: 2-naphthalenol, 2,3,4,4a,5,6,7,8-octahydro-4,4a-dimethyl-6-(1-methylethenyl)-, (2R,4R,4aS,6R)

Synonyms: nootkatol

Source: *Chamaecyparis nootkatensis* wood oil ex Joe Karchesy



RT: 36.73 AI: 1699 KI: 1699 **Sinensal <β>**

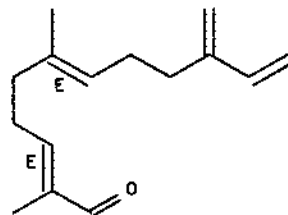
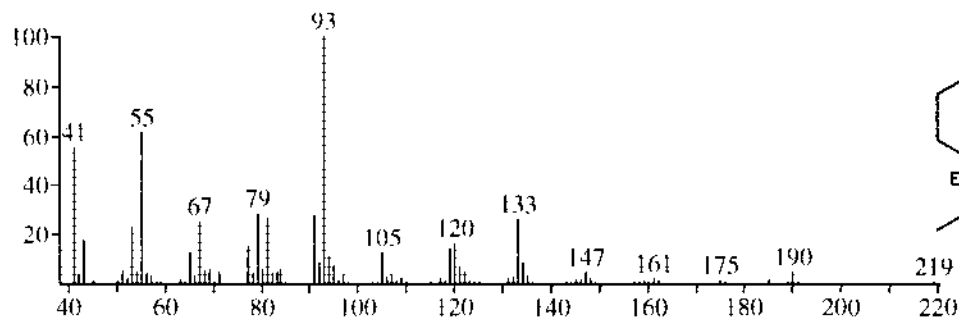
CAS#: 60066-88-8 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 1223

CN: 2,6,11-dodecatrienal, 2,6-dimethyl-10-methylene-

Synonyms: none

Source: ruby sweet orange oil ex Z. Fleisher; 2.98% *Citrus reticulata*, JFOR 2:331(1990);

2.35% *Citrus sinensis*; 0.20% *Citrus deliciosa*



RT: 36.74 AI: 1700 KI: 1700 **Eudesm-7(11)-en-4-ol**

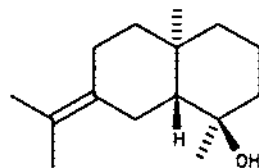
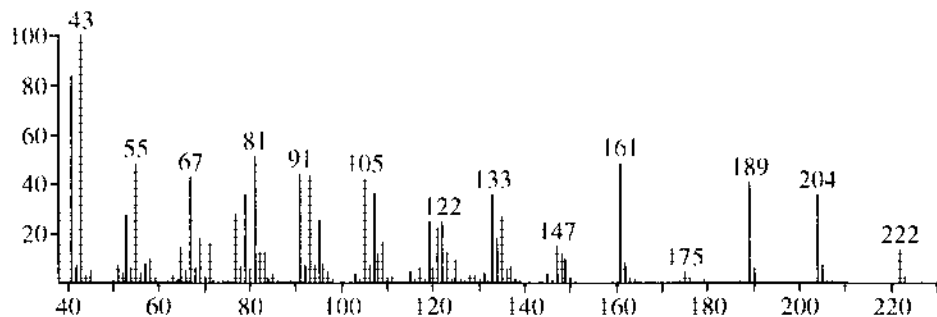
CAS#: 473-04-1 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 964

CN: 1-naphthalenol, decahydro-1,4a,dimethyl-7-(1-methylethylidene)-,

(1R-(1α,4αβ,8α))-

Synonyms: selin-7(11)-en-4-ol; juniper camphor

Source: ref. cpd. ex AF Barrero



RT: 36.74 AI: 1700 KI: 1700 **Heptadecane <n>**

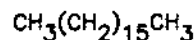
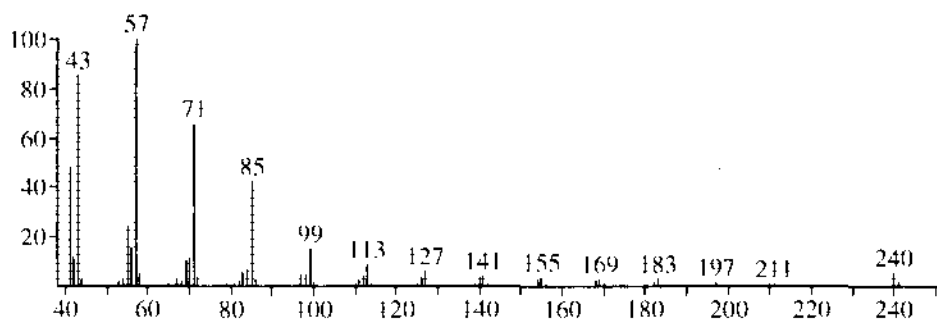
CAS#: 629-78-7 MF: C₁₇H₃₆ FW: 240 MSD LIB#: 97

CN: heptadecane

Synonyms: none

Source: Alkanes mix Alltech Assoc.; 8.00% *Lilium candidum*, Study of Frag. given of by Springtime Flowers, in: Progress in Essential Oil Research, (Proc. Intern. Symp. on Ess. Oils),

E.-J. Brunke Ed., Gruyter Publ., Berlin(1986); 2.05% *Acacia confusa*; 1.05% *Rosa odorata*



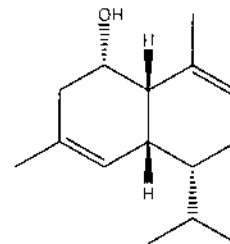
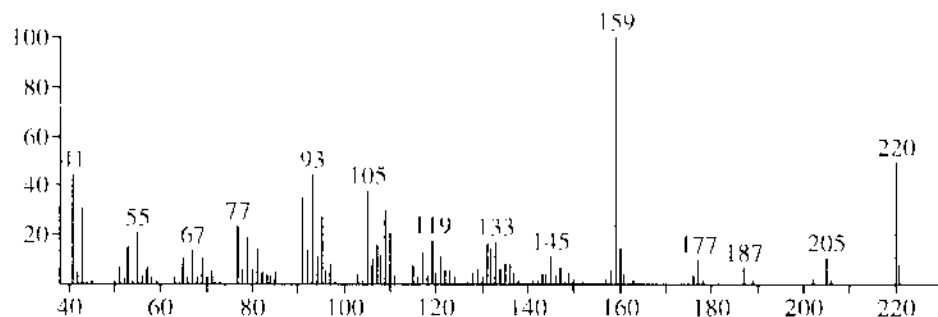
RT: 36.77 AI: 1700 KI: 1700 **Amorpha-4,9-dien-2-ol**

CAS#: 394251-66-2 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1895

CN: 1-naphthalenol, 1,2,4a,5,6,8a-hexahydro-3,8-dimethyl-5-(1-methylethyl)-, (1S,4aR,5R,8aS)-

Synonyms: none

Source: ref. cpd. ex W. Koenig



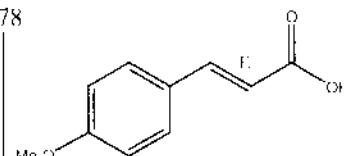
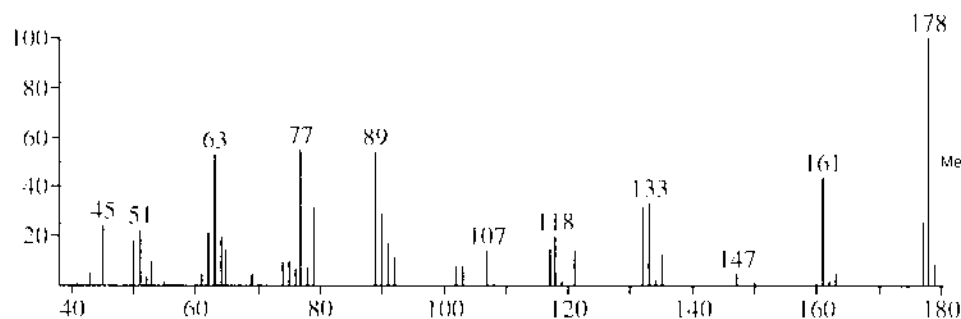
RT: 36.77 AI: 1700 KI: 1700 **Methoxy cinnamic acid <(4E)->**

CAS#: 943-89-5 MF: C₁₀H₁₀O₃ FW: 178 MSD LIB#: 1745

CN: 2-propenoic acid, 3-(4-methoxyphenyl)-, (2E)-

Synonyms: p-methoxycinnamic acid

Source: ref. cpd. ex E. von Rudloff



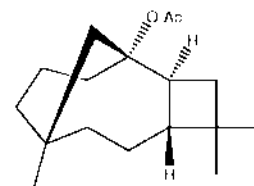
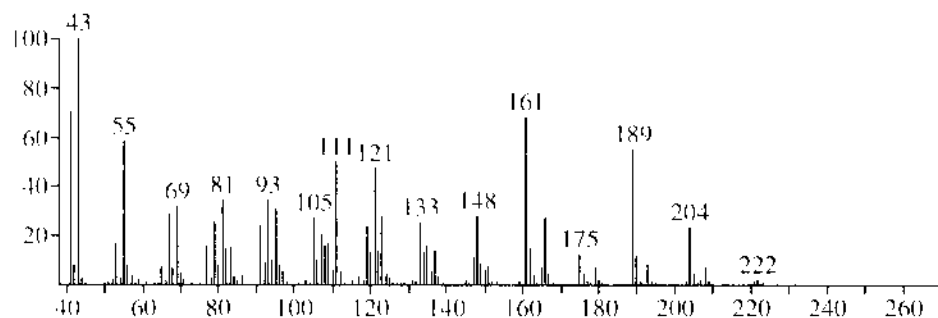
RT: 36.79 AI: 1701 KI: 1701 **Caryophyllene acetate**

CAS#: 57082-24-3 MF: C₁₇H₂₈O₂ FW: 264 MSD LIB#: 384

CN: tricyclo(6.3.1.0^{2,5})dodecan-1-ol, 4,4,8-trimethyl-, acetate, (1R-(1α,2α,5β,8β))

Synonyms: none

Source: Fritze Bros. ex E. von Rudloff



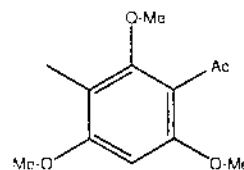
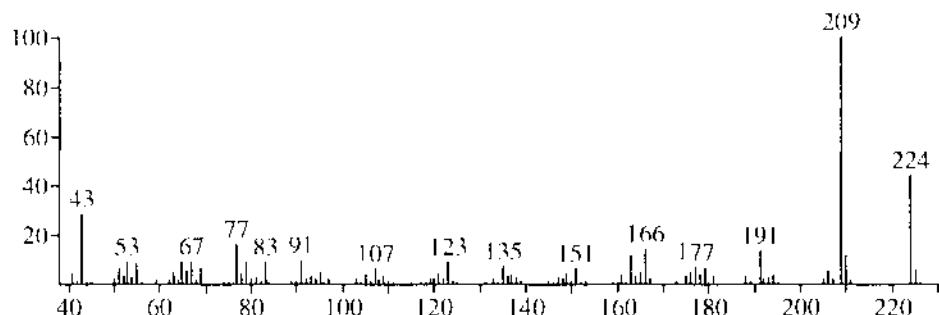
RT: 36.80 AE: 1701 KE: 1701 **Acetophenone <2,4,6-trimethoxy-3-methyl->**

CAS#: 39701-13-8 MF: C₁₂H₁₆O₄ FW: 224 MSD LIB#: 1669

CN: ethanone, 1-(2,4,6-trimethoxy-3-methylphenyl)-

Synonyms: dimethylxanthoxilin, 3,0-

Source: *Baccharis bancroftii* ex J. Brophy



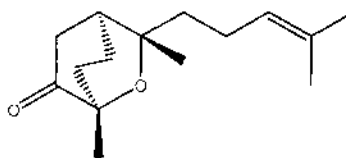
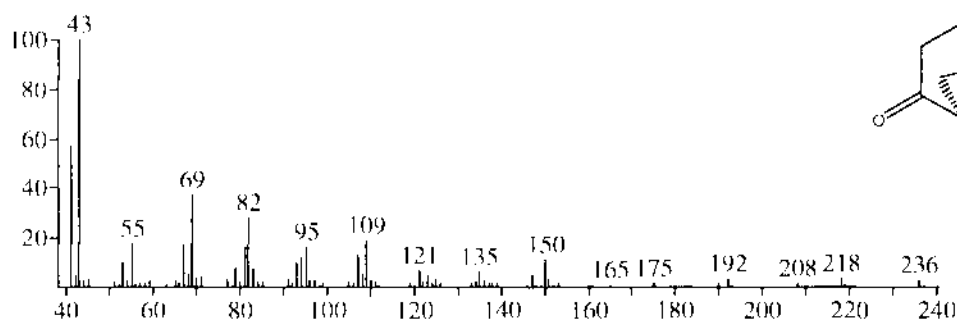
RT: 36.81 AE: 1701 KE: 1702 **Sesquicineol-2-one**

CAS#: 211237-43-3 MF: C₁₅H₂₄O₂ FW: 236 MSD LIB#: 1407

CN: 2-oxabicyclo(2.2.2)octan-6-one, 1,3-dimethyl-3-(4-methyl-3-pentenyl)-, (1R,3S,4S)-

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl



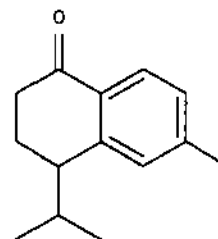
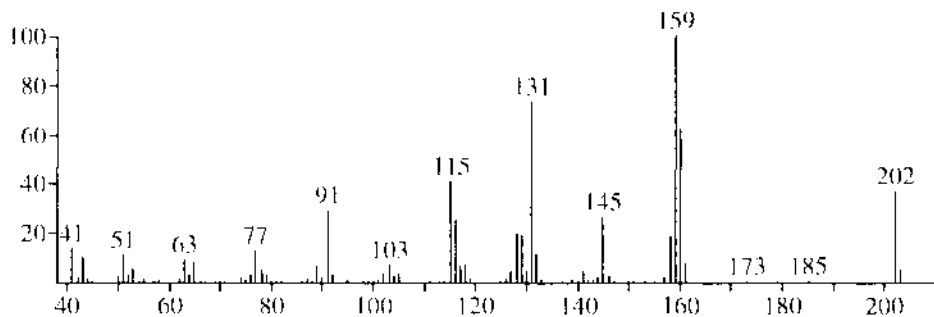
RT: 36.82 AE: 1702 KE: 1702 **Calamenen-10-one <10-nor->**

CAS#: 57494-10-7 MF: C₁₄H₁₈O FW: 202 MSD LIB#: 1424

CN: 1(2H) naphthalenone, 3,4-dihydro-6-methyl-4-(1-methylethyl)-

Synonyms: none

Source: *Solidago graminifolia* ex P. Weyerstahl



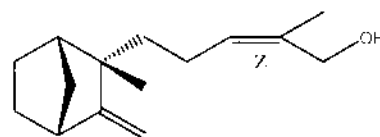
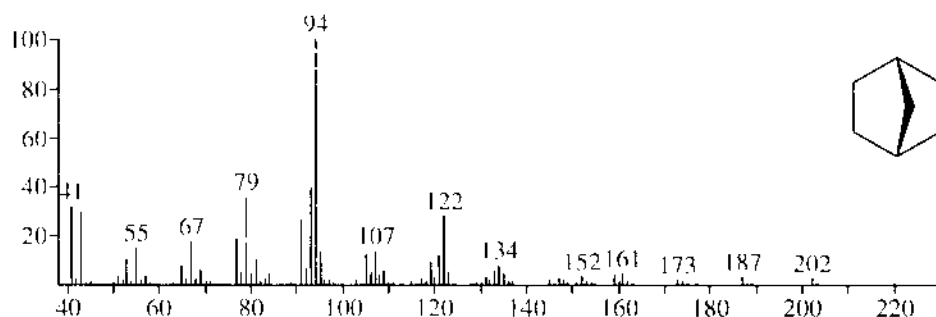
RT: 36.84 AI: 1702 KI: 1702 **Santalol <(Z)-epi-β->**

CAS#: 79081-90-6 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1385

CN: 2-penten-1-ol, 2-methyl-5-((1R,2R,4S)-2-methyl-3-methylenebicyclo(2.2.1)hept-2-yl)-, (2Z)-

Synonyms: none

Source: Sandalwood oil ex Brian Lawrence



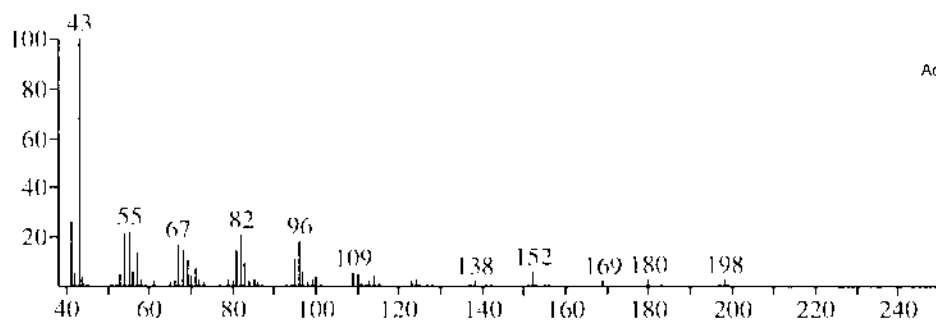
RT: 36.85 AI: 1703 KI: 1703 **Tridecenol acetate <(2E)->**

CAS#: 193758-89-3 MF: C₁₅H₂₈O₂ FW: 240 MSD LIB#: 2087

CN: 2-tridecen-1-ol,acetate, (2E)-

Synonyms: none

Source: Bedoukian Res.



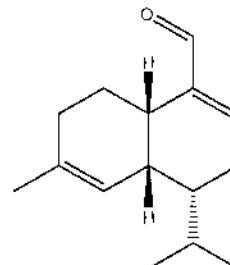
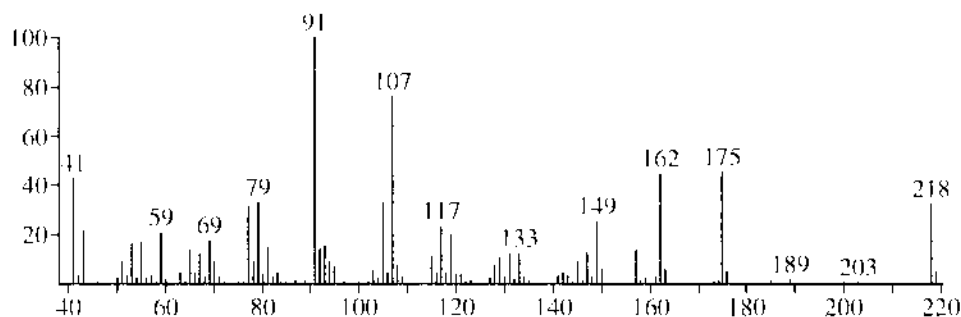
RT: 36.91 AI: 1704 KI: 1704 **Amorpha-4,9-dien-14-al**

CAS#: 394251-65-1 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 1894

CN: 1-naphthalenecarboxaldehyde, 3,4,4a,7,8,8a-hexahydro-6-methyl-4-(1-methylethyl)-, (4R,4aR,8aS)-

Synonyms: none

Source: ref. epd. ex W. Koenig



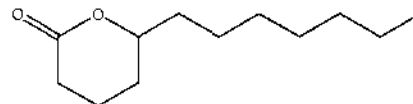
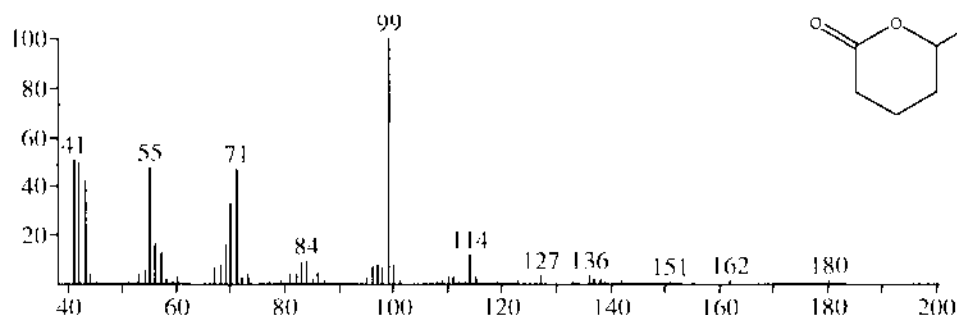
RT: 36.91 AI: 1704 KI: 1704 **Dodecalactone <δ->**

CAS#: 713-95-1 MF: C₁₂H₂₂O₂ FW: 198 MSD LIB#: 622

CN: 2H-pyran-2-one, 6-heptyltetrahydro-

Synonyms: 5-dodecanolide; δ-heptyl-δ-valerolactone

Source: ref. cpd. ex P. Weyerstahl; 0.40% *Polianthes tuberosa* (living flower),
Pure Appl. Chem. 62:1357(1990)



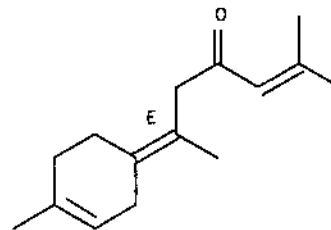
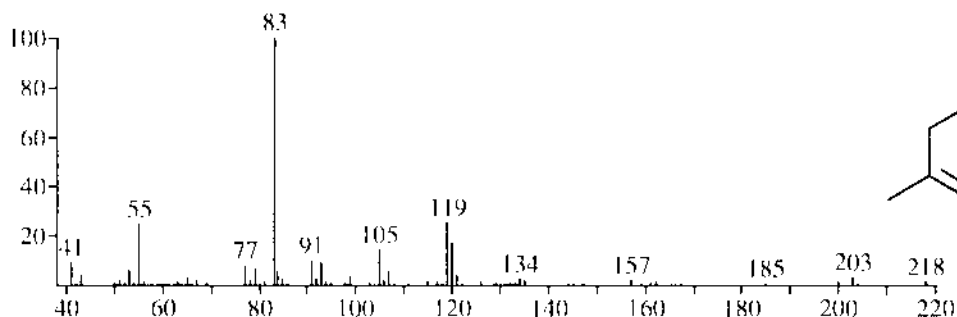
RT: 36.98 AI: 1706 KI: 1706 **Atlantone <(E)-γ->**

CAS#: 108549-47-9 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 249

CN: 2-hepten-4-one, 2-methyl-6-(4-methyl-3-cyclohexen-1-ylidene)-,(E)-

Synonyms: none

Source: *Artemisia vestita* oil ex P. Weyerstahl



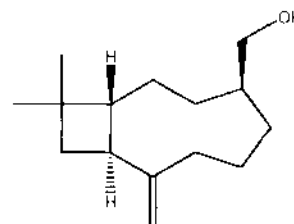
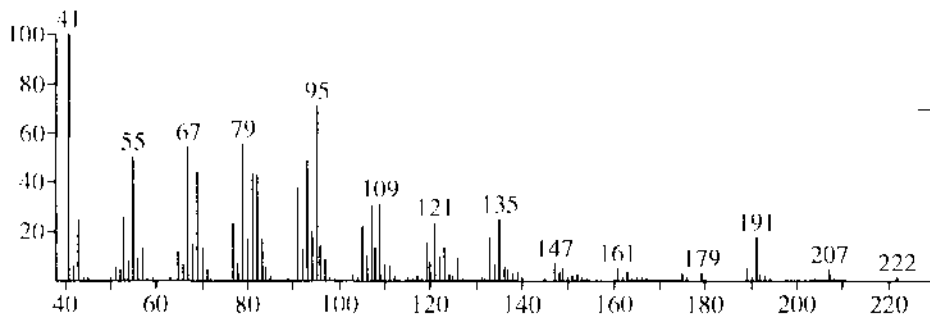
RT: 36.98 AI: 1706 KI: 1706 **Caryophyllene <14-hydroxy-4,5-dihydro->**

CAS#: 289621-83-6 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1737

CN: bicyclo(7.2.0)undecane-4-methanol, 11,11-dimethyl-8-methylene-, (1R,4S,9S)-

Synonyms: none

Source: *Betula pendula* ex Husnu Baser



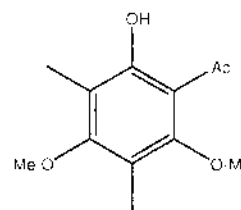
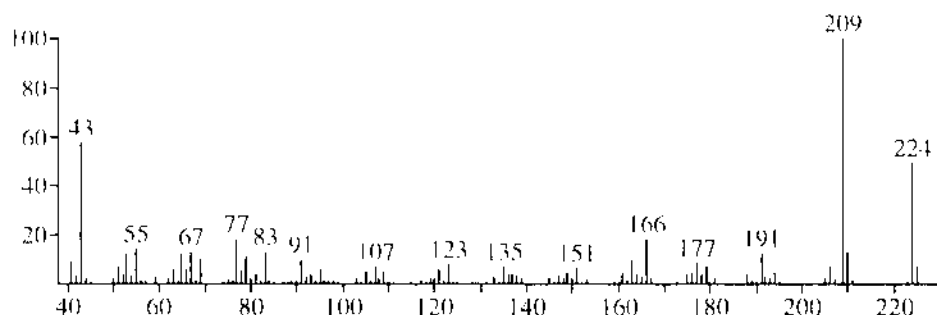
RT: 36.98 AI: 1706 KI: 1706 **Melaleucol**

CAS#: 21722-31-6 MF: C₁₂H₁₆O₄ FW: 224 MSD LIB#: 1060

CN: ethanone, 1-(2-hydroxy-4,6-dimethoxy-3,5-dimethylphenyl)-

Synonyms: cajeputol; dimethylxanthoxylin

Source: *Melaleuca cajuputi* oil ex JJ Brophy



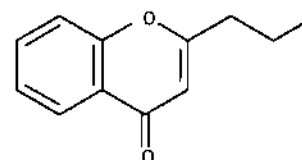
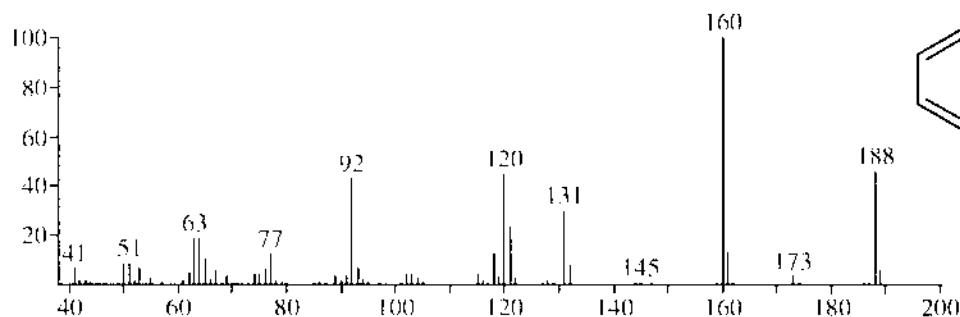
RT: 36.98 AI: 1706 KI: 1706 **Propyl chromone <2->**

CAS#: 80856-25-3 MF: C₁₂H₁₂O₂ FW: 188 MSD LIB#: 122

CN: 4H-1-benzopyran-4-one, 2-propyl-

Synonyms: none

Source: *Anomyrtus meli* oil ex P. Weyerstahl



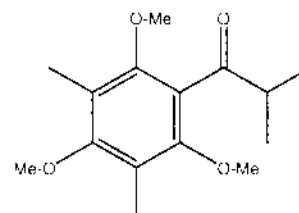
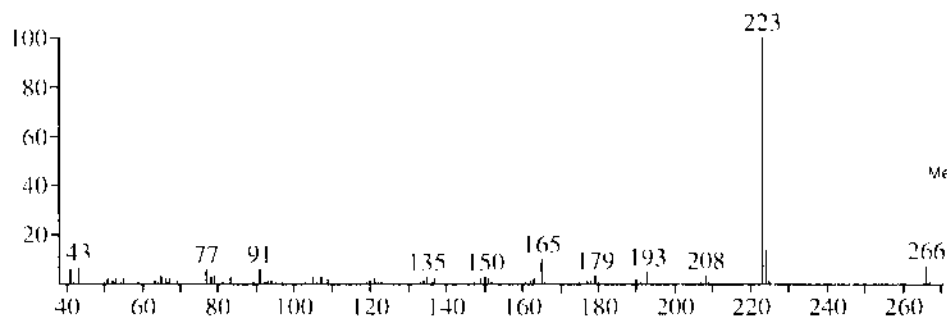
RT: 36.99 AI: 1706 KI: 1707 **Apodophyllene**

CAS#: 25677-09-2 MF: C₁₅H₂₂O₄ FW: 266 MSD LIB#: 1678

CN: 1-propanone, 2-methyl-1-(2,4,6-trimethoxy-3,5-dimethylphenyl)-

Synonyms: campfieldone

Source: *Eucalyptus minuta* ex JJ Brophy



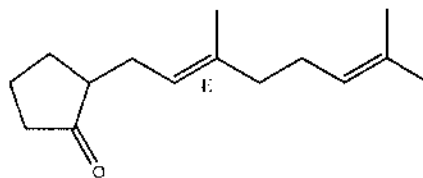
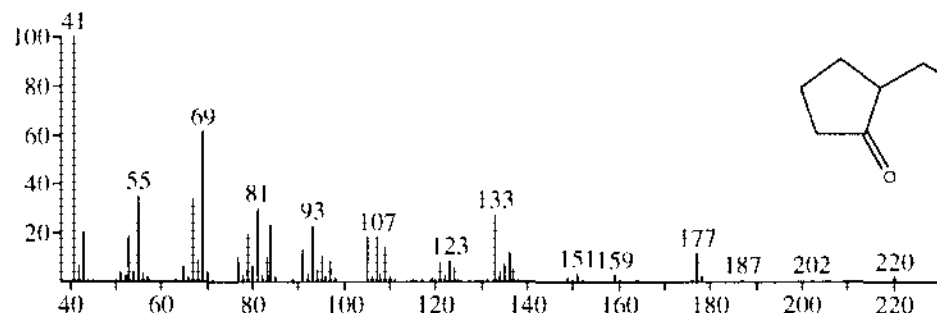
RT: 37.04 AE: 1708 KE: 1708 **Apritone <(E)->**

CAS#: 74016-19-6 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 190

CN: cyclopentanone, 2-(3,7-dimethyl-2,6-octadienyl)-,(E)-

Synonyms: cyclopentanone, 2-geranyl-

Source: Bedoukian Res. ex Art Tucker



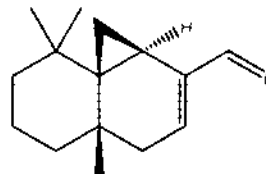
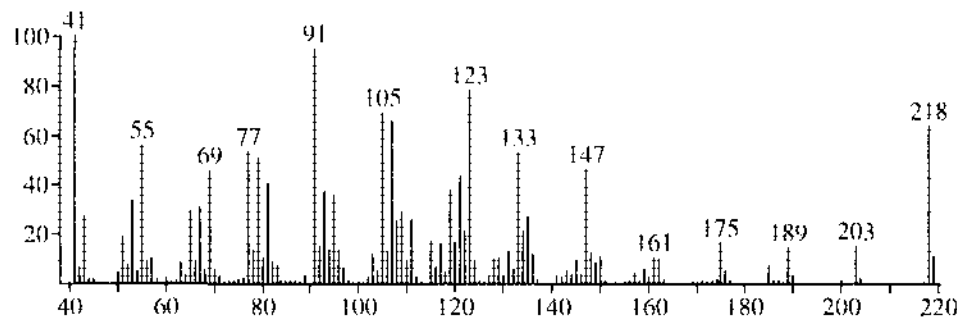
RT: 37.06 AE: 1708 KE: 1709 **Thujopsenal <cis->**

CAS#: 470-41-7 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 1887

CN: cyclopropa(d)naphthalene-2-carboxyaldehyde, 1,1a,4,4a,5,6,7,8-octahydro-4a,8,8-trimethyl-, (1aR,4aS,8aS)-

Synonyms: widdrenal

Source: *J. chinensis* wood sesquiterpenes ex Larry Cool



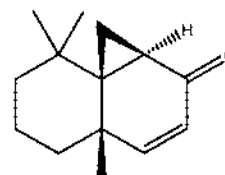
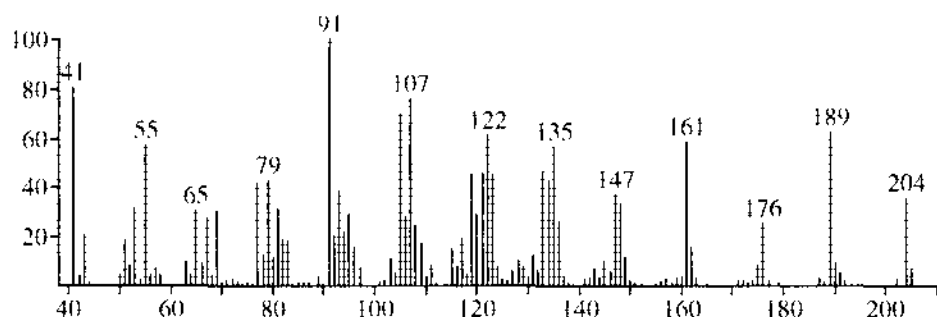
RT: 37.09 AE: 1709 KE: 1710 **Mayurone**

CAS#: 4677-90-1 MF: C₁₄H₂₀O FW: 204 MSD LIB#: 392

CN: cyclopropa(d)naphthalen-2-(4aH)-one, 1,1a,5,6,7,8-hexahydro-4a,8,8-trimethyl-, (1aR-(1aα,4aβ,8aS*))-

Synonyms: 2-nor-thujops-3-en-2-one

Source: *Juniperus ashei* cedarwood oil, Texarome Inc.; 0.36% *Dendranthema vestitum*, p. 95, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong (1993); 0.11% *Neocinnamomum delavayi*



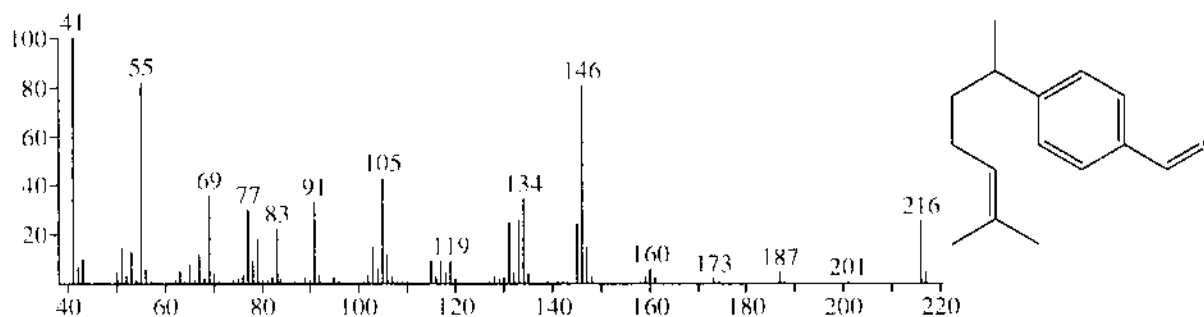
RT: 37.21 AI: 1712 KI: 1713 **Curcumen-15-al <ar->**

CAS#: 186350-72-1 MF: C₁₅H₂₀O FW: 216 MSD LIB#: 528

CN: benzaldehyde, 4-(1,5-dimethyl-4-hexenyl)-

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl



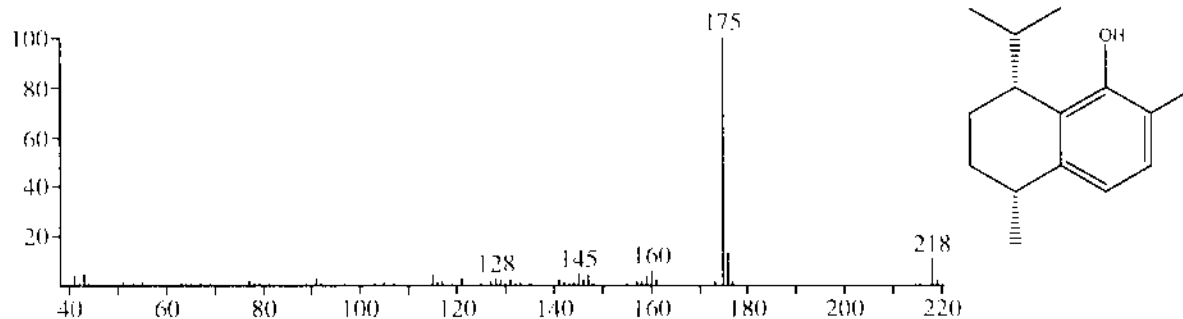
RT: 37.22 AI: 1713 KI: 1713 **Calamenene <5-hydroxy-cis->**

CAS#: 81275-80-1 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 1878

CN: 1-naphthalenol, 5,6,7,8-tetrahydro-2,5-dimethyl-8-(1-methylethyl)-(5R,8R)-

Synonyms: none

Source: *Bazzania trilobata* ex W. Koenig



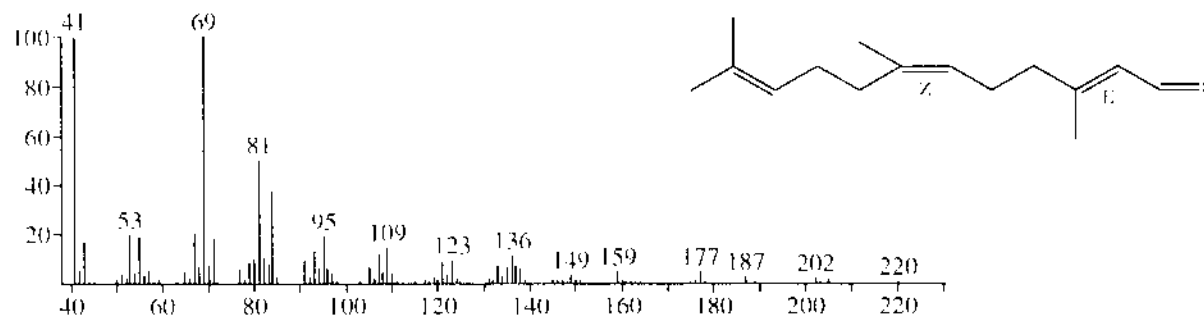
RT: 37.22 AI: 1713 KI: 1713 **Farnesal <(2E,6Z)->**

CAS#: 3790-67-8 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1722

CN: 2,6,10-dodecatrienal, 3,7,11-trimethyl-, (2E,6Z)-

Synonyms: none

Source: H & R ex P. Weyerstahl; 3.00% *Scleria striatinox* (rhizome), JHOR 8:59(1996)



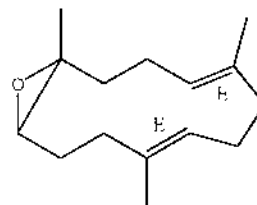
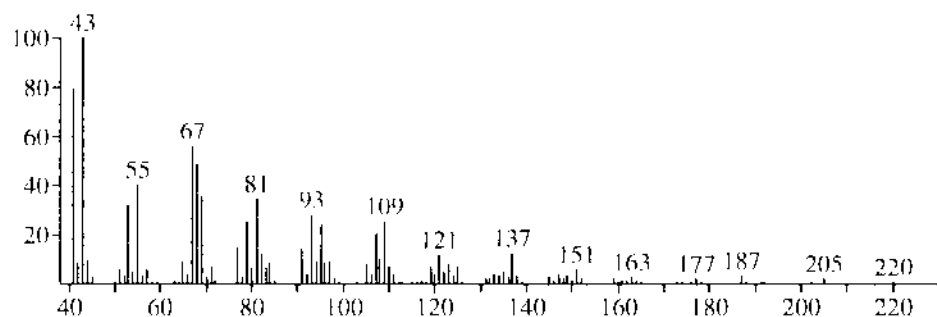
RT: 37.23 AI: 1713 KE: 1713 **Cedroxyde**

CAS#: 13786-79-3 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 411

CN: 13-oxabicyclo(10.1.0)trideca-4,8-diene, 1,5,9-trimethyl-

Synonyms: none

Source: Firmenich ex Jian-Qin Cu, Kunming



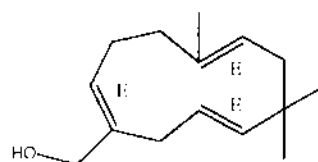
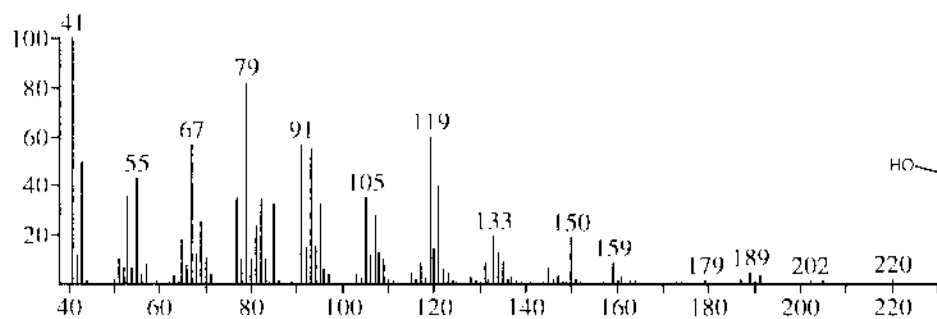
RT: 37.24 AI: 1713 KE: 1714 **Humulene <14-hydroxy-α>**

CAS#: 000-00-0 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 930

CN: not assigned

Synonyms: none

Source: *Juniperus oxycedrus* wood oil ex AF Barrero



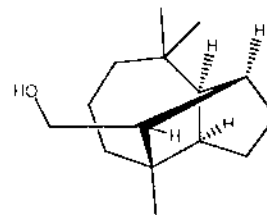
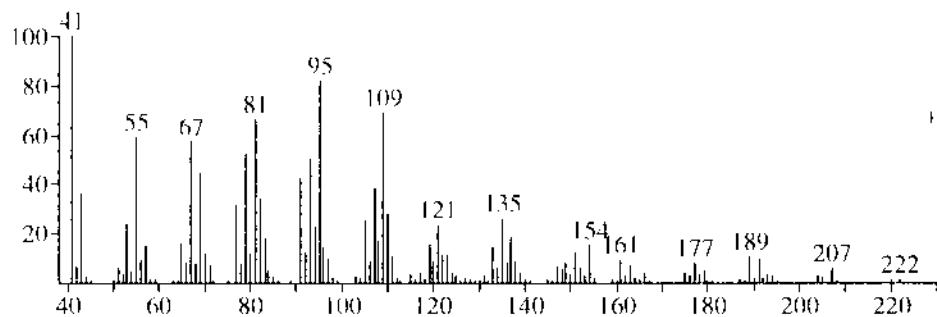
RT: 37.25 AI: 1713 KE: 1714 **Longifolol**

CAS#: 469-27-2 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1029

CN: 1,4-methanoazulene-9-methanol, decahydro-4,8,8-trimethyl-, (1S,3aR,4S,8aS,9R)-

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl



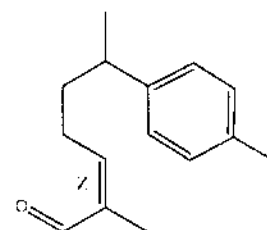
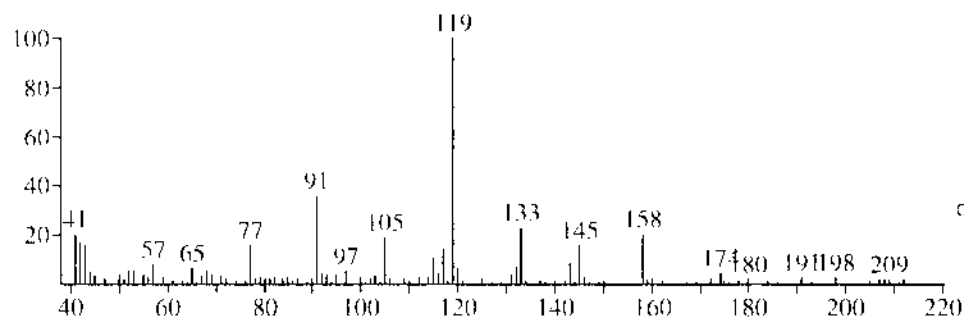
RT: 37.25 Al: 1713 Kl: 1714 **Nuciferal <(Z)->**

CAS#: 122442-35-7 MF: C₁₅H₂₀O FW: 216 MSD LIB#: 1190

CN: 2-heptenal, 2-methyl-6-(4-methylphenyl)-, (Z)-

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl



RT: 37.27 Al: 1714 Kl: 1715 **Farnesol <(2E,6Z)->**

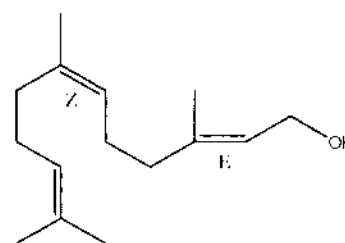
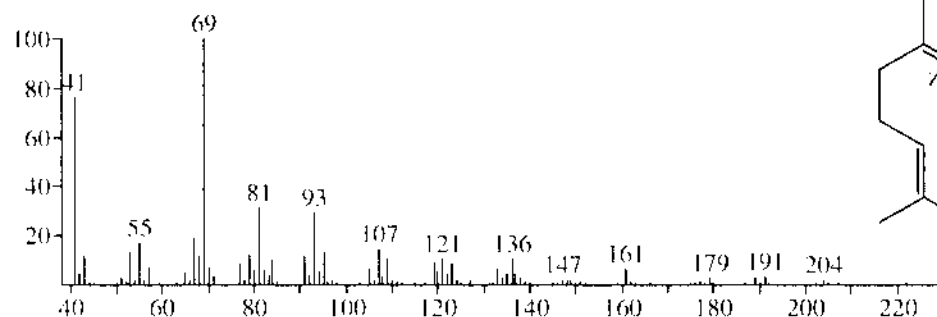
CAS#: 3879-60-5 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 708

CN: 2,6,10-dodecatrien-1-ol, 3,7,11-trimethyl-, (E,Z)-

Synonyms: farnesol, trans, cis-

Source: ref. cpd. ex E. von Rudloff; 12.56% *Eucalyptus tereticornis*, JEOR 8:111(1996);

1.75% *Rosa rugosa*; 0.35% *Jasmin sambac*



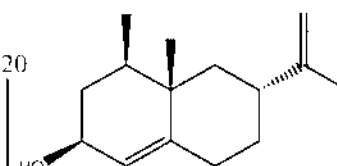
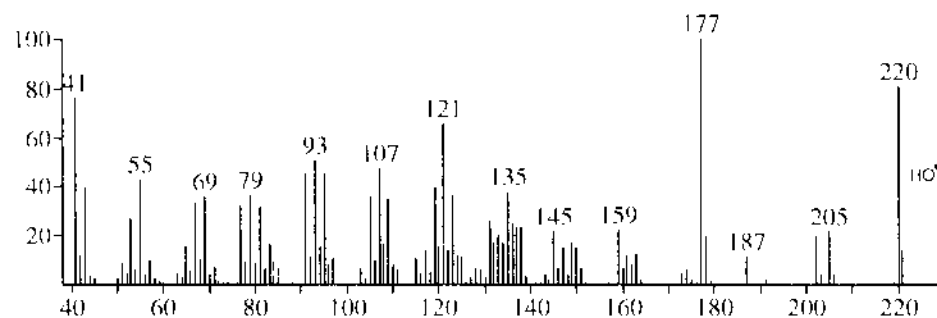
RT: 37.28 Al: 1714 Kl: 1715 **Nootkatol**

CAS#: 50763-67-2 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1771

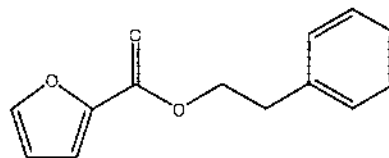
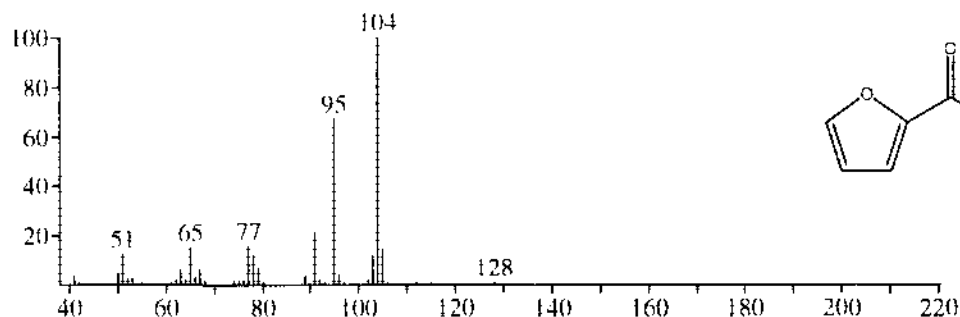
CN: 2-naphthalenol, 2,3,4,4a,5,6,7,8-octahydro-4,4a-dimethyl-6-(1-methylethenyl)-, (2S,4R,4aS,6R)-

Synonyms: none

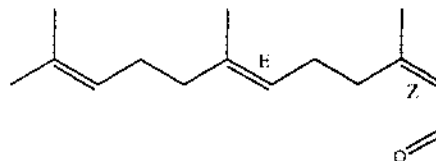
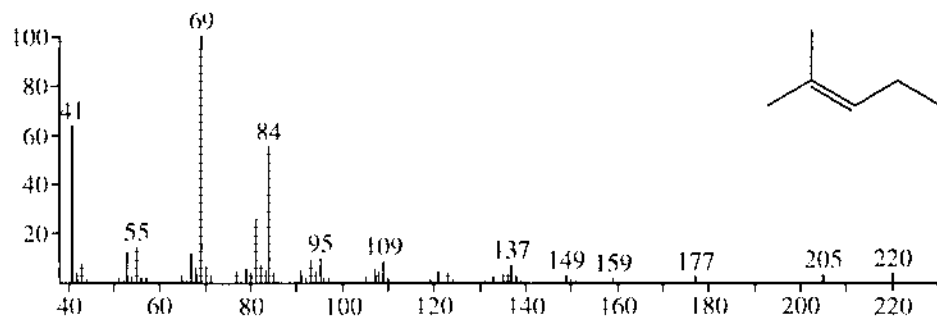
Source: *Chamaecyparis nootkatensis* wood oil ex Joe Karchesy



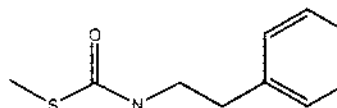
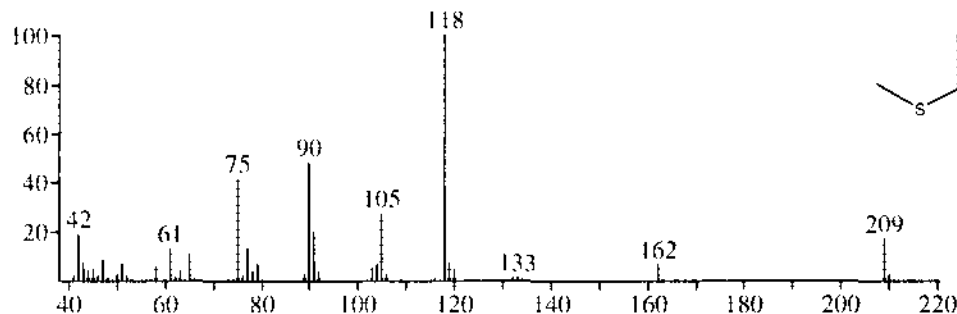
RT: 37.28 AL: 1714 KE: 1715 **Phenethyl 2-furoate**
 CAS#: 7149-32-8 MF: C₁₃H₁₂O₃ FW: 216 MSD LIB#: 1695
 CN: 2-furancarboxylic acid, 2-phenylethyl ester
 Synonyms: 2-furoic acid <phenethyl ester->
 Source: Aldrich Chem.



RT: 37.31 AL: 1715 KE: 1716 **Farnesal <(2Z,6E)->**
 CAS#: 4380-32-9 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1951
 CN: 2,6,10-dodecatrienal,3,7,11-trimethyl, (2Z,6E)-
 Synonyms: none
 Source: H & R Chem. ex. P. Weyerstahl; 0.25% *Hibiscus abelmoschus*,
 Parfums, Cosmet., Aromes 89:95(1989); 0.11% *Magnolia coco*; 0.10% *Citrus aurantium*



RT: 37.31 AL: 1715 KE: 1716 **Niranin**
 CAS#: 92886-90-3 MF: C₁₁H₁₅NOS FW: 209 MSD LIB#: 1912
 CN: carbanthioic acid, methyl(2-phenylethyl)-, S-methyl ester
 Synonyms: none
 Source: ref. cpd. ex Ian Southwell



RT: 37.31 AI: 1715 KI: 1716 **Santalol <(Z)-β>**

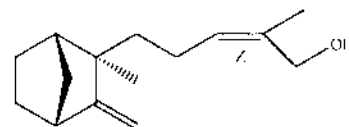
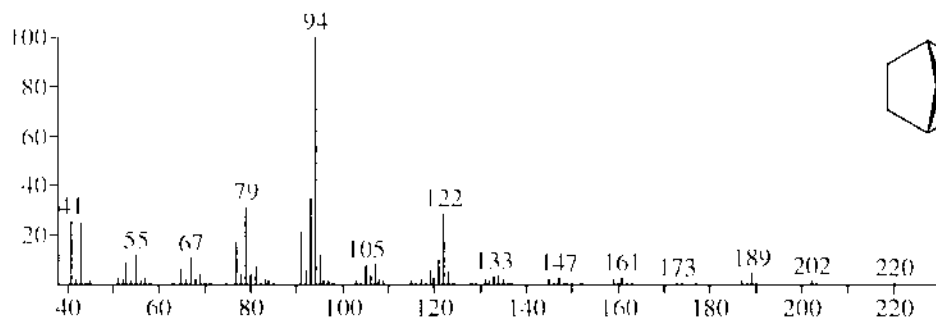
CAS#: 77-42-9 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1381

CN: methyl-5-(2-methyl-3-methylenebicyclo[2.2.1]hept-2-yl)-2-penten-1-ol

Synonyms: santalol b

Source: Sandalwood oil ex Brian Lawrence; 24.57% *Santalum album*, Yaoxue

Xuebao 23:868(1988); 16.20% *Zingiber officinale*; 4.00% *Anomum muricarpum*



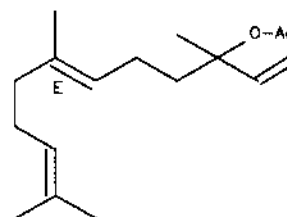
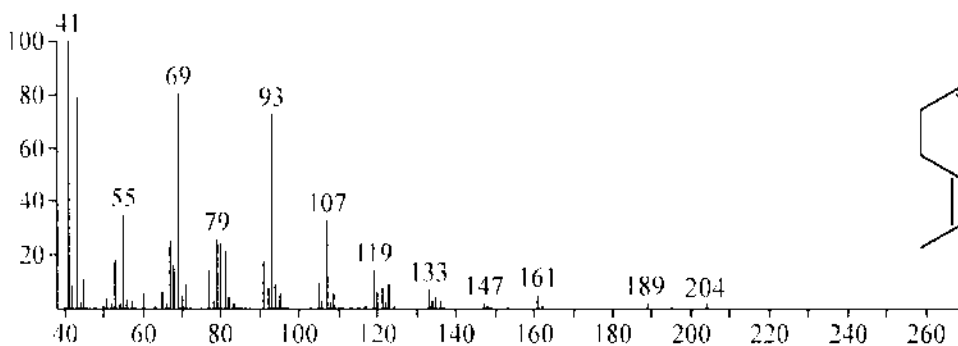
RT: 37.35 AI: 1716 KI: 1717 **Nerolidyl acetate <(E)->**

CAS#: 85611-33-2 MF: C₁₇H₂₈O₂ FW: 264 MSD LIB#: 1143

CN: 1,6,10-dodecatrien-3-ol, 3,7,11-trimethyl-, acetate, (E)-

Synonyms: none

Source: acetylation of (E)-nerolidol (6251)



RT: 37.38 AI: 1717 KI: 1718 **Curcuphenol**

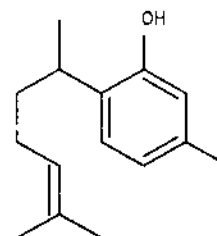
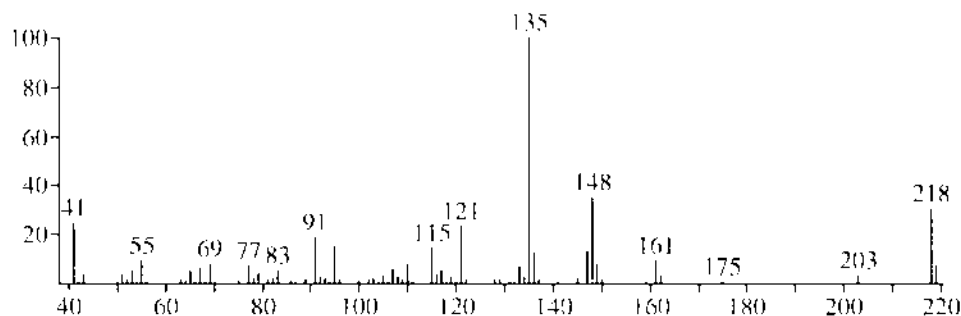
CAS#: 69301-27-5 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 521

CN: phenol, 2-(1,5-dimethyl-4-hexenyl)-5-methyl-

Synonyms: none

Source: *Curcuma aromatica* oil ex Synthite Chem., India; 1.0% *Curcuma xanthorrhiza*,

FEJ 7:19(1992); 0.70% *Curcuma aromatica*; 0.60% *Curcuma longa*



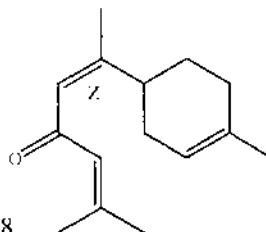
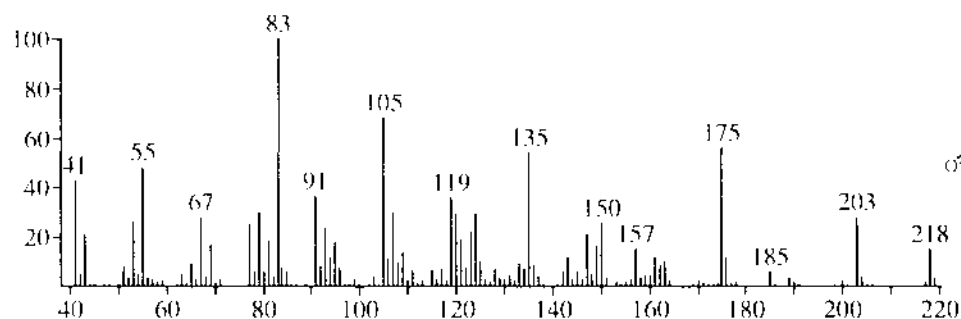
RT: 37.39 AI: 1717 KI: 1718 **Atlantone <(Z)-α>**

CAS#: 56192-70-2 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 250

CN: 2,5-heptadien-4-one, 2-methyl-6-(4-methyl-3-cyclohexen-1-yl)-, (R-(Z))-

Synonyms: none

Source: *Artemisia vestita* oil ex P. Weyerstahl



RT: 37.39 AI: 1717 KI: 1718 **Butylidene phthalide <(3E)->**

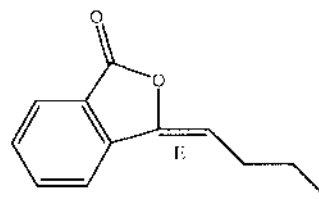
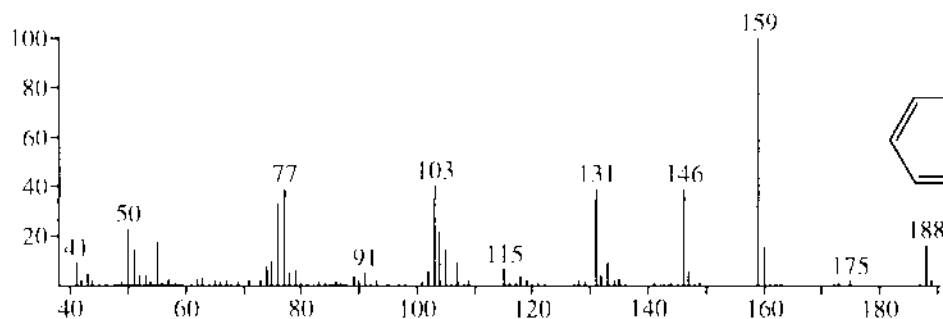
CAS#: 76681-73-7 MF: C₁₂H₁₂O₂ FW: 188 MSD LIB#: 1040

CN: 1(3H)-isobenzofuranone, 3-butylidene-, (E)-

Synonyms: none

Source: Lovage root oil ex F. Perineau: 1.33% *Levisticum officinale*,

11th Intl. Cong. of Ess. Oils, New Delhi, India. 4:89(1989); 1.00% *Apium graveolens*



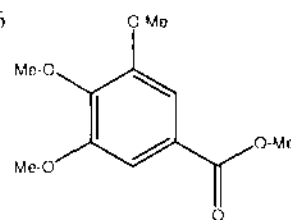
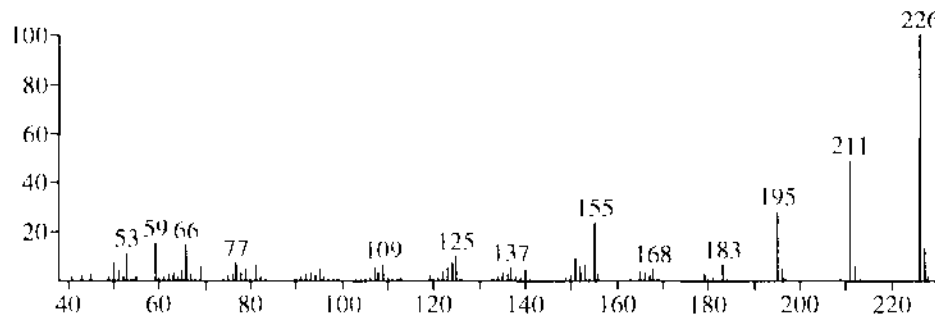
RT: 37.40 AI: 1718 KI: 1718 **Methyl eudesmate**

CAS#: 1916-07-0 MF: C₁₁H₁₄O₅ FW: 226 MSD LIB#: 1834

CN: benzoic acid, 3,4,5-trimethoxy-, methyl ester

Synonyms: methyl gallate trimethyl ether; trimethylgallic acid methyl ester;

Source: ref. cpd. ex Ian Southwell



RT: 37.41 AI: 1718 KI: 1719 **Davanone-2-ol <β>**

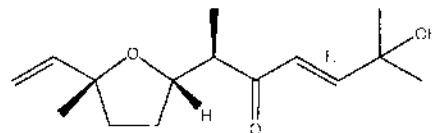
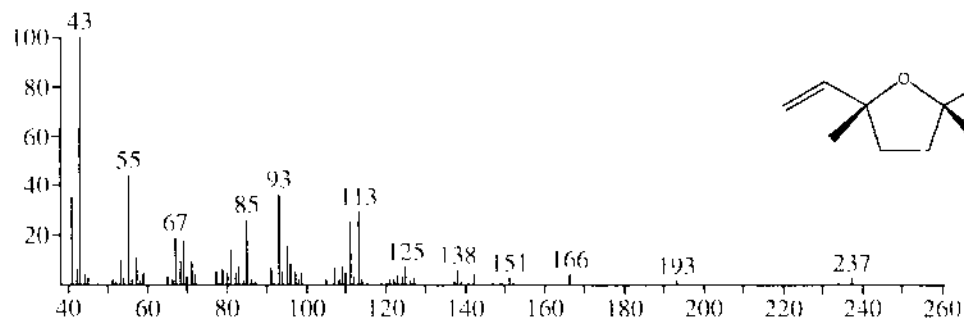
CAS#: 54783-66-3 MF: C₁₅H₂₄O₃ FW: 252 MSD LIB#: 2172

CN: 4-hepten-3-one, 2-((2S,5R)-5-ethenyltetrahydro-5-methyl-2-furanyl)-6-

hydroxy-6-methyl-, (2R,4E)-

Synonyms: davanone, cis-hydroxy-

Source: Armoise a davanone ex Guy Collin



RT: 37.45 AI: 1719 KI: 1720 **Sedanenolide**

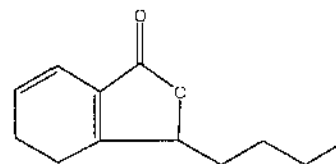
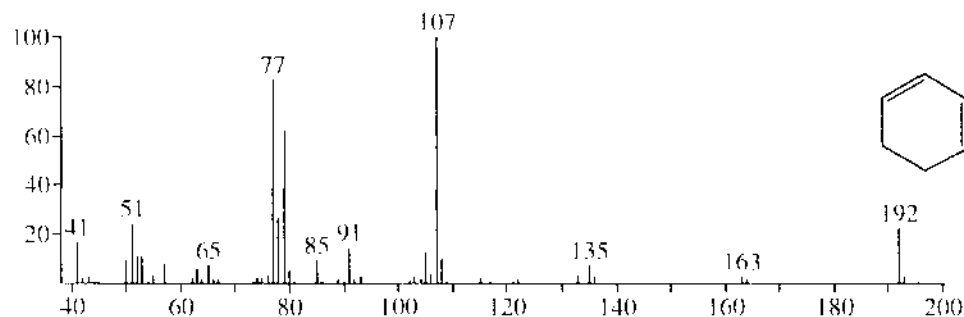
CAS#: 63038-10-8 MF: C₁₂H₁₆O₂ FW: 192 MSD LIB#: 1581

CN: 1-(3H)-isobenzofuranone, 3-butyl-4,5-dihydro-

Synonyms: Senkunolide A

Source: *Lomatium dissectum* oil ex Vasu Dev; 24.40% *Apium graveolens* (seed).

Phytochem 27:373(1988); 5.00% *Apium graveolens* (plant)



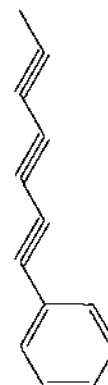
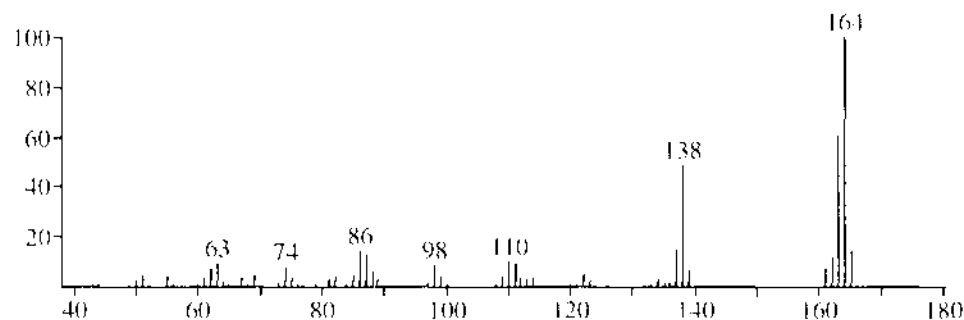
RT: 37.48 AI: 1720 KI: 1721 **Hepta-1,3,5-triyne <1-phenyl>**

CAS#: 4300-27-0 MF: C₁₃H₈ FW: 164 MSD LIB#: 293

CN: benzene, 1,3,5-heptatriynyl-

Synonyms: phenylheptatriyne

Source: *Bidens pilosa* ex C. Menut & G. Lamaty



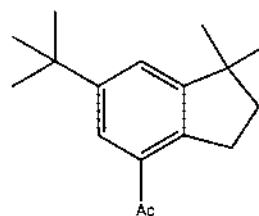
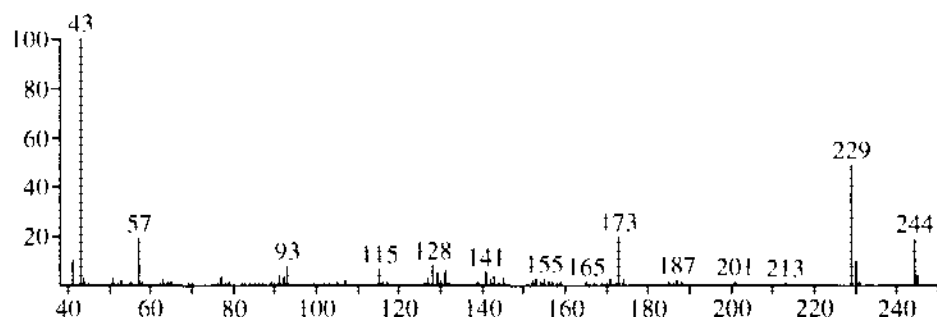
RT: 37.55 AI: 1722 KE: 1722 **Celestolide**

CAS#: 13171-00-1 MF: C₁₇H₂₄O FW: 244 MSD LIB#: 423

CN: ethanone, 1-(6-(1,1-dimethylethyl)-2,3-dihydro-1,1-dimethyl-1H-inden-4-yl)-

Synonyms: esperone

Source: IFF Chem. ex Art Tucker



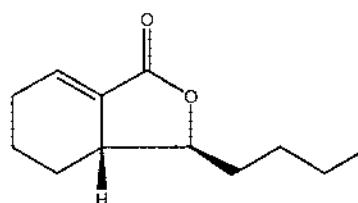
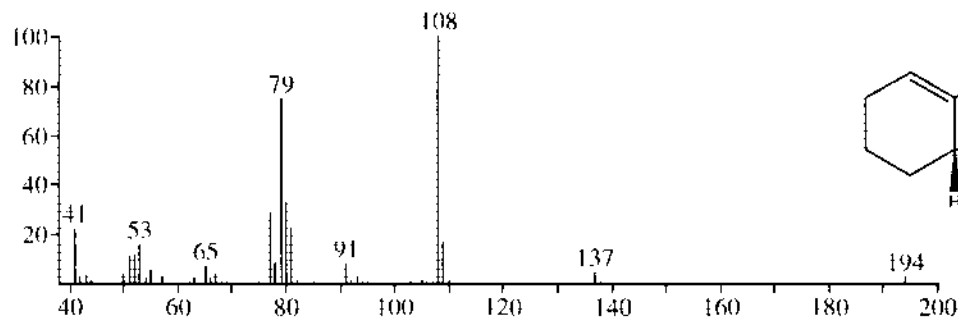
RT: 37.55 AI: 1722 KE: 1722 **Neocnidilide**

CAS#: 4567-33-3 MF: C₁₂H₁₈O₂ FW: 194 MSD LIB#: 1583

CN: (13H)-isobenzofuranone, 3-butyl-3a,4,5,6-tetrahydro-(3S,3aR)-

Synonyms: none

Source: *Lomatium dissectum* oil ex Vasu Dev



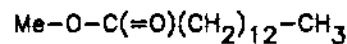
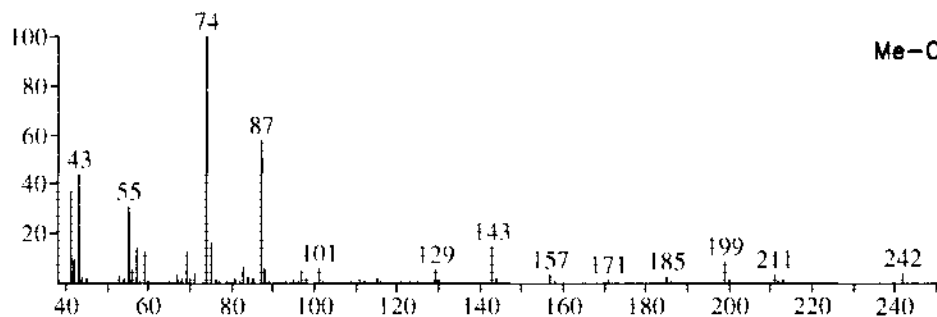
RT: 37.57 AI: 1722 KE: 1723 **Methyl tetradecanoate**

CAS#: 124-10-7 MF: C₁₅H₃₀O₂ FW: 242 MSD LIB#: 1111

CN: tetradecanoic acid, methyl ester

Synonyms: methyl myristate

Source: ref. cpd. ex E. von Rudloff

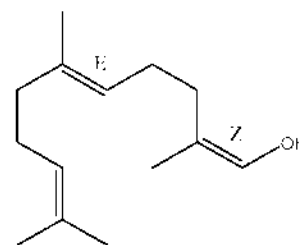
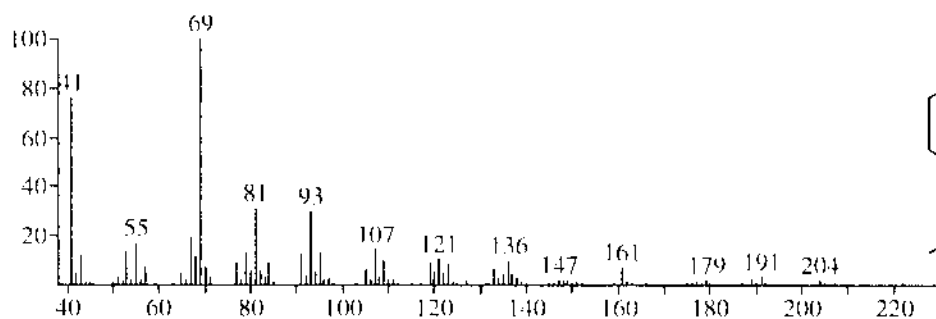


RT: 37.58 AI: 1722 KI: 1723 **Farnesol** <(2Z,6E)->

CAS#: 3790-71-4 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 706

CN: trimethyl-2,6,10-dodecatrien-1-ol <3,7,11-> (Z,E)

Synonyms: farnesol, 2-cis,6-trans-



RT: 37.62 AI: 1724 KI: 1724 **Cryptomerione**

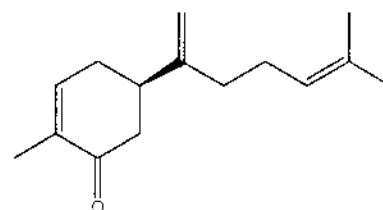
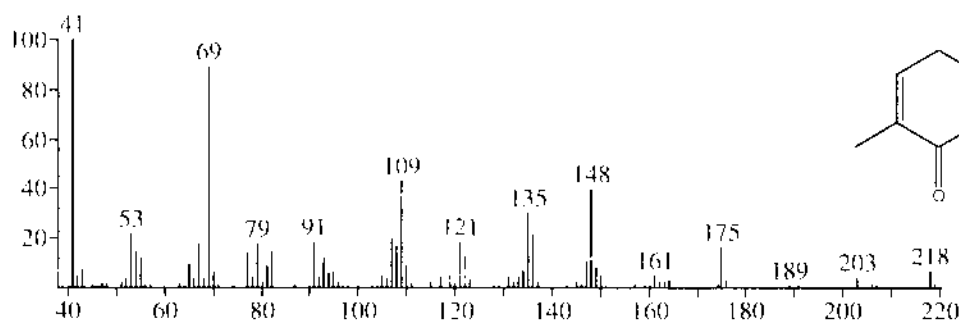
CAS#: 5988-72-7 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 491

CN: 2-cyclohexen-1-one, 2-methyl-5-(5-methyl-1-methylene-4-hexenyl)-, (5R)-

Synonyms: none

Source: *Cryptomeria japonica* wood oil ex S. Nagahama; 0.08% *Daucus carota*.

Huadong Xueyuan Xuebao 15:777(1989)



RT: 37.63 AI: 1724 KI: 1725 **Nuciferol** <(Z)->

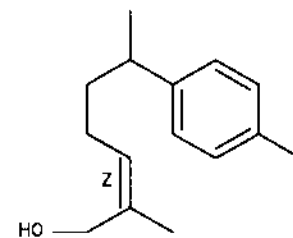
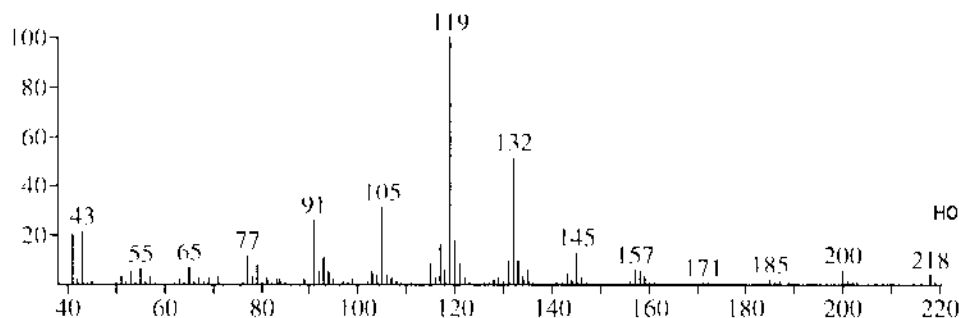
CAS#: 78339-53-4 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 1387

CN: 2-hepten-1-ol 2-methyl-6-(4-methylphenyl)-, (S-(Z))-

Synonyms: cis-nuciferol

Source: Sandalwood oil ex Brian Lawrence; 5.45% *Santalum album* (India).

Dragoco Rept. 4:107(1988); 3.14% *Santalum album* (China)



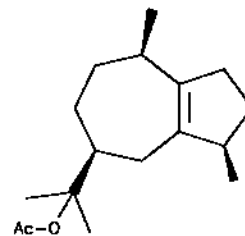
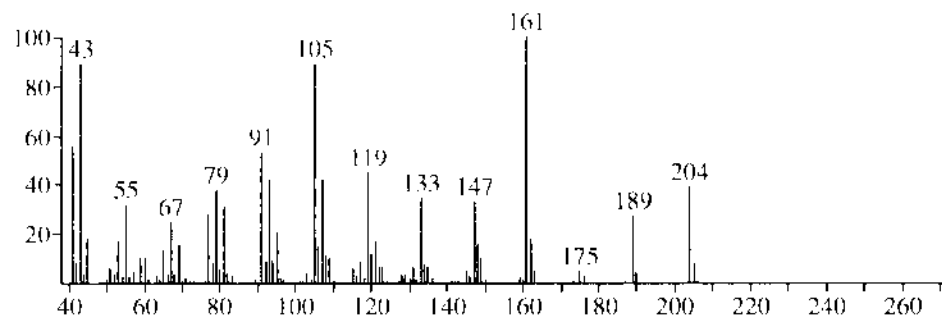
RT: 37.68 AI: 1725 KI: 1726 **Guaiol acetate**

CAS#: 134-28-1 MF: C₁₇H₂₈O₂ FW: 264 MSD LIB#: 761

CN: 5-azulenemethanol, 1,2,3,4,5,6,7,8-octahydro- $\alpha,\alpha,3,8$ -tetramethyl-, acetate, (3S-(3 $\alpha,5\alpha,8\alpha$))-

Synonyms: guaiac acetate; guaiyl acetate

Source: ref. cpd. ex E. von Rudloff



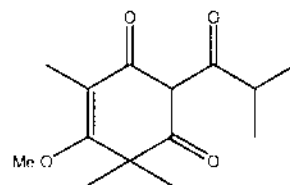
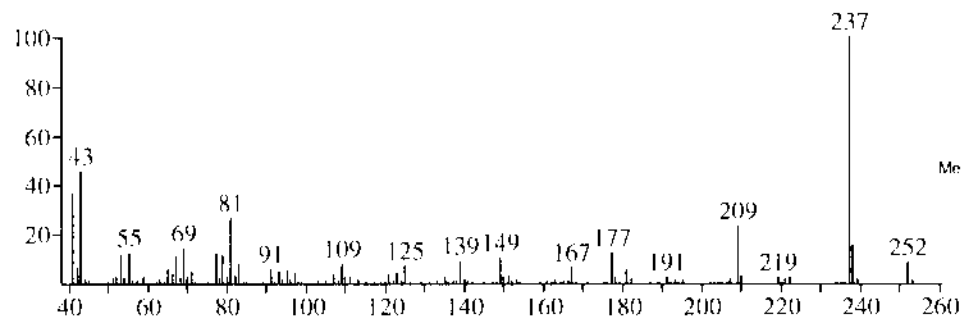
RT: 37.70 AI: 1726 KI: 1727 **Tasmanone**

CAS#: 22595-52-4 MF: C₁₄H₂₀O₄ FW: 252 MSD LIB#: 690

CN: 4-cyclohexen-1,3-dione, 5-methoxy-4,6,6-trimethyl-2-(2-methyl-1-oxopropyl)-

Synonyms: none

Source: *Eucalyptus cloeziana* oil ex JJ Brophy, Aust.



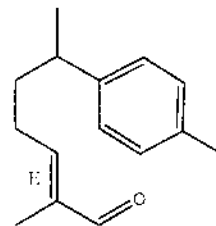
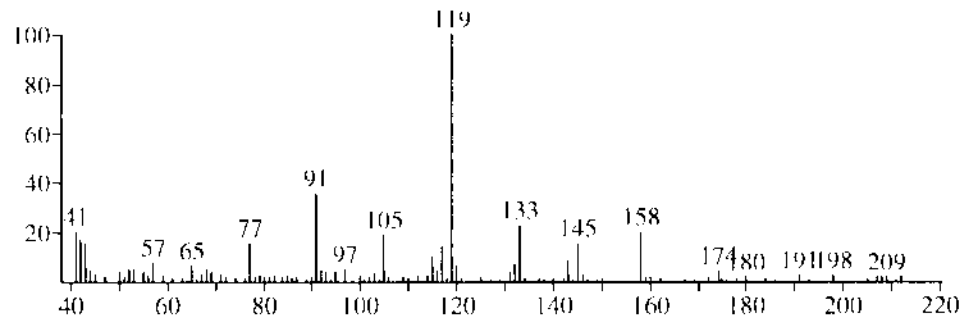
RT: 37.75 AI: 1727 KI: 1728 **Nuciferal <(E)->**

CAS#: 25532-74-5 MF: C₁₅H₂₀O FW: 216 MSD LIB#: 1191

CN: 2-heptenal, 2-methyl-6-(4-methylphenyl)-, (2E,6S)-

Synonyms: nuciferal

Source: ref. cpd. ex P. Weyerstahl



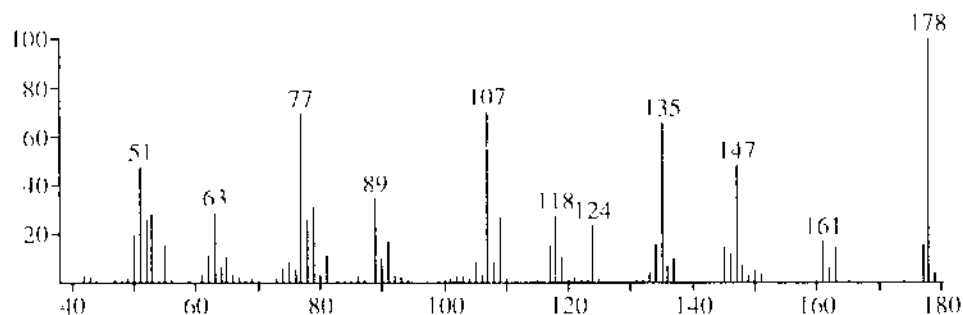
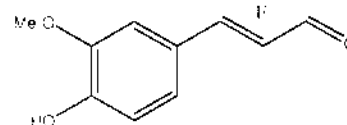
RT: 37.78 AI: 1728 KI: 1729 **Cinnamaldehyde <4-hydroxy-3-methoxy->**

CAS#: 20649-42-7 MF: C₁₀H₁₀O₃ FW: 178 MSD LIB#: 440

CN: 2-propenal, 3-(4-hydroxy-3-methoxyphenyl)-, (E)-

Synonyms: coniferaldehyde; ferulaldehyde

Source: Bedoukian Res. ex Art Tucker



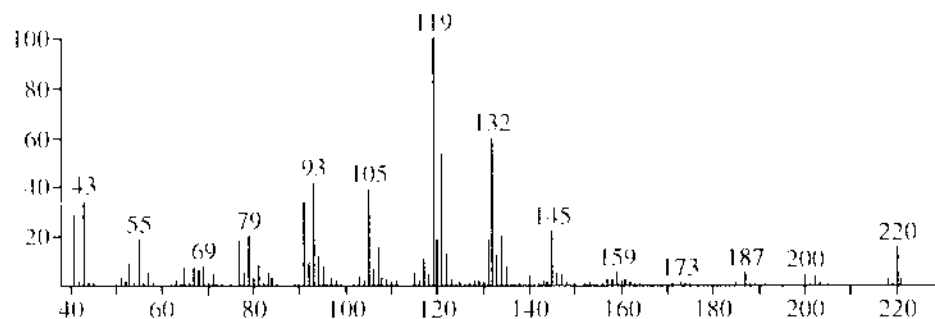
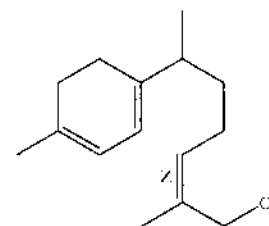
RT: 37.80 AI: 1728 KI: 1729 **Curcumen-12-ol <γ-(Z)->**

CAS#: 151513-85-8 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1881

CN: 2-hepten-1-ol, 2-methyl-6-(4-methyl-1,3-cyclohexadien-1-yl)-, (2Z,6R)-

Synonyms: none

Source: W. Australia Sandalwood oil ex Norbert Braum



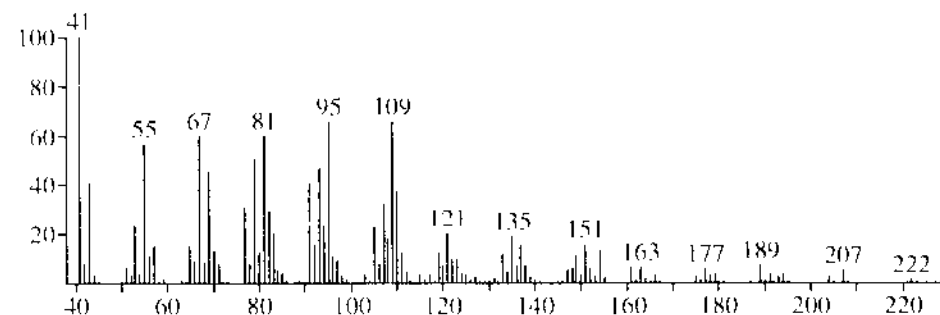
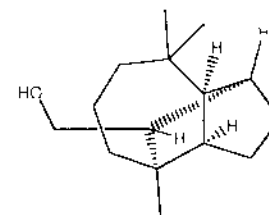
RT: 37.80 AI: 1728 KI: 1729 **Longifolol <iso->**

CAS#: 1139-17-9 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1030

CN: 1,4-methanoazulene-9-methanol, decahydro-4,8,8-trimethyl-, (1S,3aR,4S,8aS,9S)-

Synonyms: isolongifolol, 3-; longi-β-camphenyl alcohol

Source: Fluka Chem.



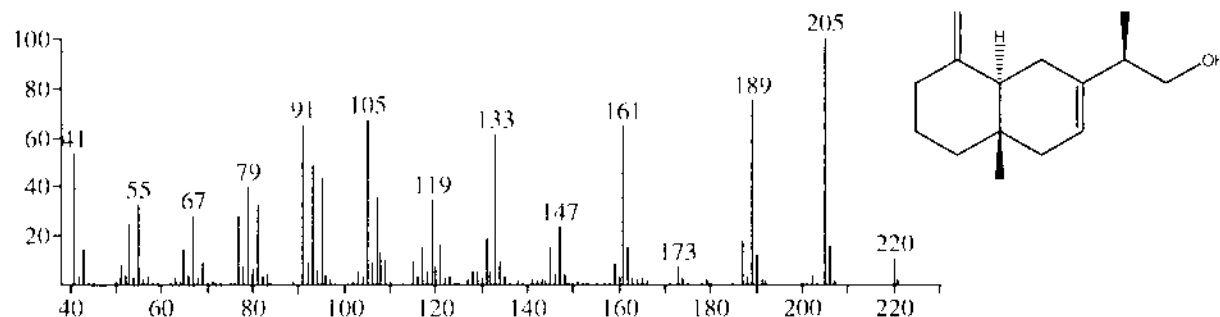
RT: 37.84 AI: 1730 KI: 1731 **Vetiselinol**

CAS#: 28102-68-3 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1576

CN: 2-naphthaleneethanol, 1,4,4a,5,6,7,8a-octahydro- β ,4a-dimethyl-8-methylene-, (3R, 4aS, 8aR)-

Synonyms: none

Source: vetiver oil, Haiti, Texarome Inc.



RT: 37.87 AI: 1730 KI: 1731 **Chamazulene**

CAS#: 529-05-5 MF: C₁₄H₁₆ FW: 184 MSD LIB#: 431

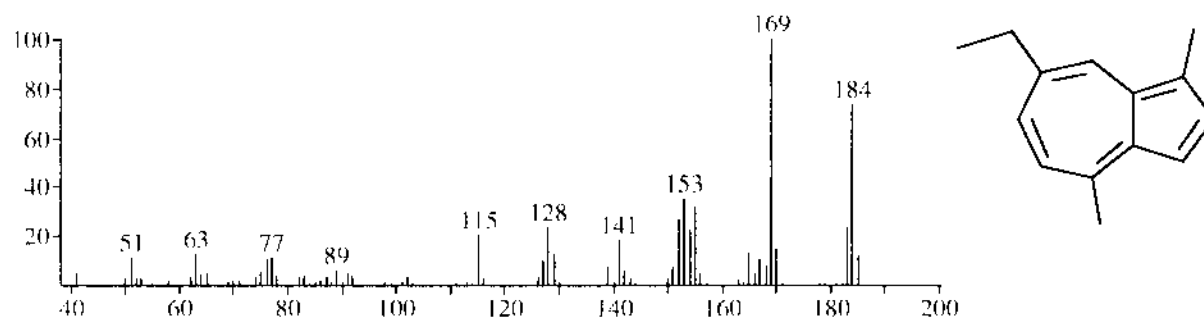
CN: azulene, 7-ethyl-1,4-dimethyl-

Synonyms: dimethulene; camazulene

Source: Aromatics Intl. ex Art Tucker; 23.35% *Chamomilla recutita* (Germany).

Dragoco Report 3:31 (1992); 21.39% *Artemisia arborescens*;

17.64% *Chamomilla recutita* (Bulgaria)



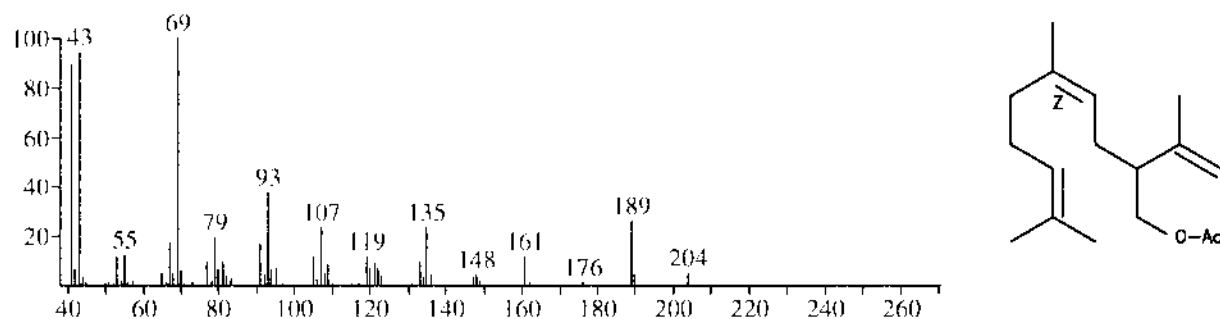
RT: 37.92 AI: 1732 KI: 1733 **Sesquilavandulyl acetate <(Z)->**

CAS#: 141992-14-5 MF: C₁₇H₂₈O₂ FW: 264 MSD LIB#: 1410

CN: 4,8-decadien-1-ol, 5,9-dimethyl-2-(1-methylethenyl)-, acetate, (Z)-

Synonyms: sesquilavandulol acetate <cis->

Source: ref. cpd. ex Dragoco ex G. Schmaus



RT: 37.94 AI: 1732 KI: 1733 **Zerumbone**

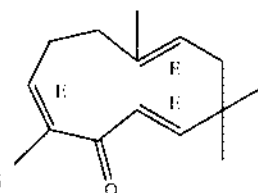
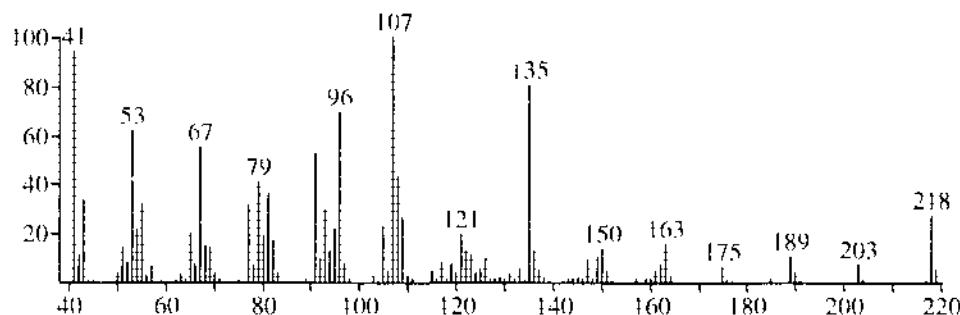
CAS#: 471-05-6 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 152

CN: 2,6,10-cycloundecatrien-1-one, 2,6,9,9-tetramethyl-, (E,E,E)-

Synonyms: none

Source: ref. epd. ex E. von Rudloff: 72.30% *Zingiber zerumbet* (rhizome), JEOR 5:555(1993);

21.30% *Zingiber zerumbet* (stem); 2.80% *Zingiber officinale*



RT: 37.95 AI: 1733 KI: 1734 **Curcumenol**

CAS#: 19431-84-6 MF: C₁₅H₂₂O₂ FW: 234 MSD LIB#: 526

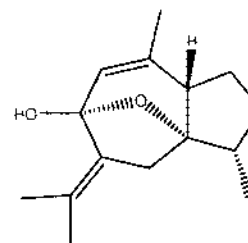
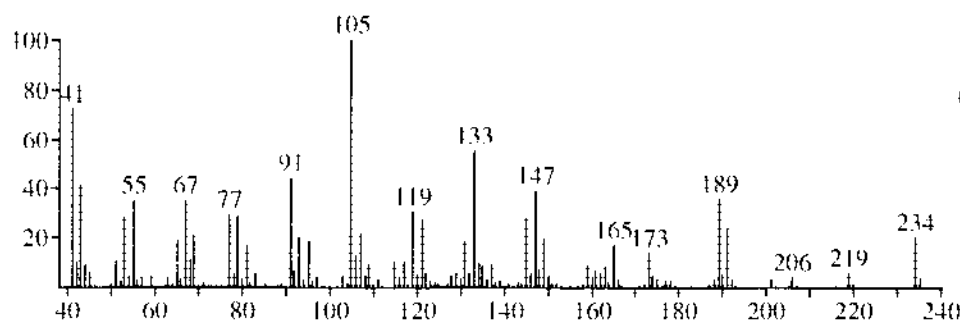
CN: 6H-3a,6-epoxyazulen-6-ol, 1,2,3,4,5,8a-hexahydro-3,8-dimethyl-5-(1-methylethylidene)-,

(3S-(3a,3aa,6a,8aβ))-

Synonyms: none

Source: *Curcuma heyneana* ex JH Zwaving; 9.90% *Curcuma aeruginosa*, FEJ 7:19(1992);

8.60% *Curcuma heyneana*; 0.20% *Zingiber officinale*



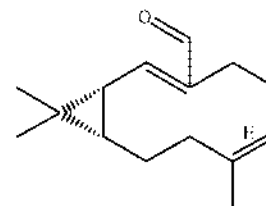
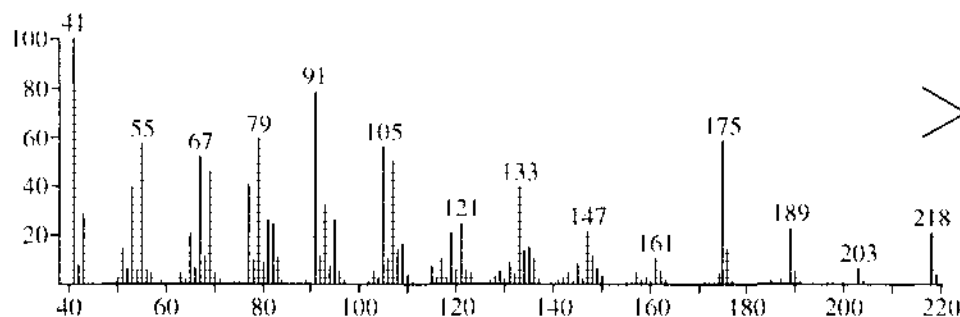
RT: 37.95 AI: 1733 KI: 1734 **Isobicyclogermacreneal**

CAS#: 73256-82-3 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 1846

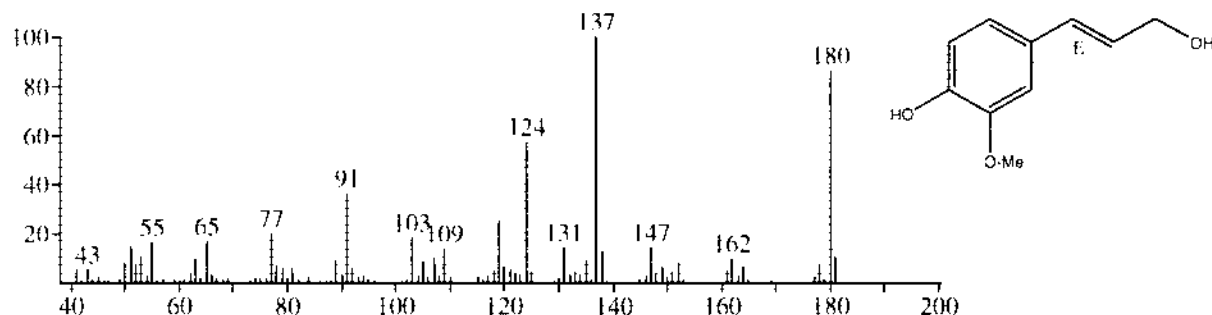
CN: bicyclo(8.1.0)undeca-2,6-diene-3-carboxaldehyde, 7,11,11-trimethyl-(1R,2E,6E,10S)-

Synonyms: none

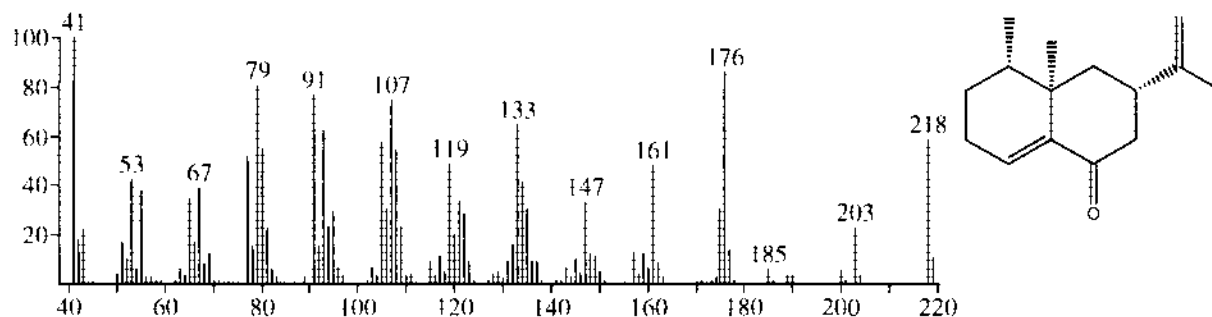
Source: *Eucalyptus dawsonii* oil ex JJ Brophy



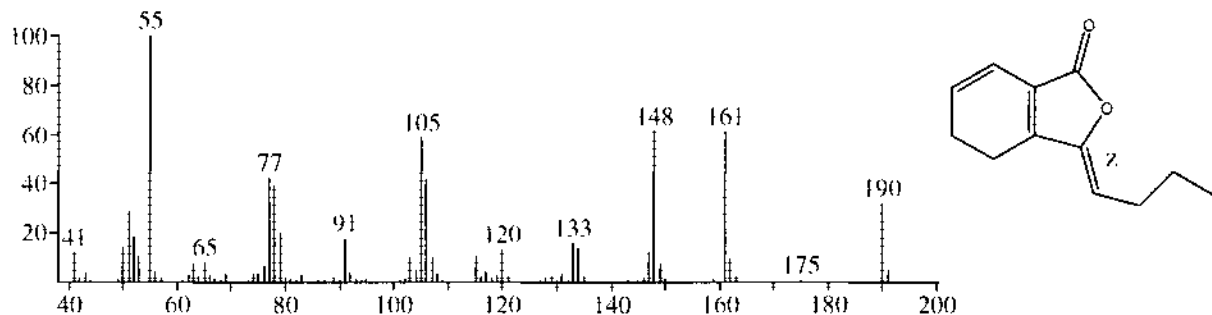
RT: 37.98 AE: 1733 KE: 1734 **Coniferyl alcohol <(E)->**
 CAS#: 32811-40-8 ME: C₁₀H₁₂O₃ FW: 180 MSD LIB#: 464
 CN: phenol, 4-(3-hydroxy-1-propenyl)-2-methoxy-, (E)-
 Synonyms: trans-coniferyl alcohol
 Source: ref. cpd. ex Norm Lewis



RT: 38.02 AE: 1734 KE: 1736 **Eremophilone**
 CAS#: 562-23-2 ME: C₁₅H₂₂O FW: 218 MSD LIB#: 1800
 CN: 1(2H)-naphthalenone, 3,4,4a,5,6,7-hexahydro-4a,5-dimethyl-3-(1-methylethenyl)-, (3S,4aR,5S)-
 Synonyms: Eremophila-1(10),11-dien-9-one
 Source: *Eremophila mitchelli* oil ex Ian Southwell



RT: 38.02 AE: 1734 KE: 1736 **Ligustilide <(Z)->**
 CAS#: 4431-01-0 ME: C₁₂H₁₄O₂ FW: 190 MSD LIB#: 1036
 CN: 1(3H)-isobenzofuranone, 3-butylidene-4,5-dihydro-
 Synonyms: phthalide, cis-3-butylidene-4,5-dihydro-
 Source: Lovage root oil ex F. Perineau



RT: 38.15 AI: 1738 KI: 1739 **Santalol <(E)-β>**

CAS#: 37172-32-0 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1386

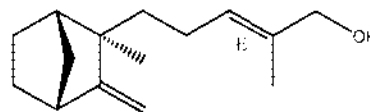
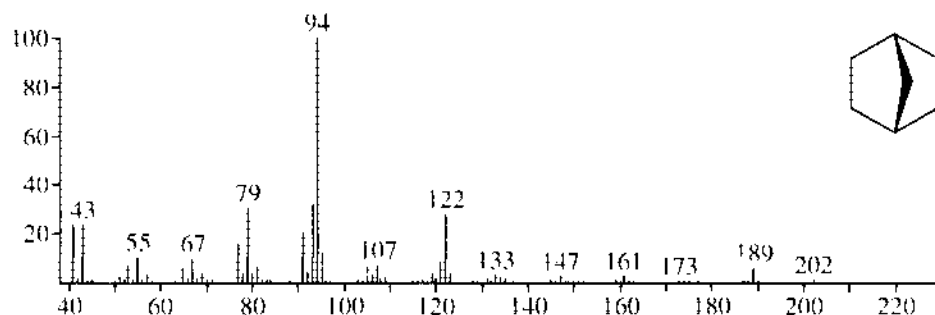
CN: 2-penten-1-ol, 2-methyl-5-(2-methyl-3-methylenebicyclo(2.2.1)hept-2-yl)-(1S-(1α,2α,(E),4α))-

Synonyms: none

Source: Sandalwood oil ex Brian Lawrence; 7.00% *Santalum album*,

p. 60, in: Aromatic Plants & Essential Constituents, Pease Book Co., Hong Kong(1993);

0.02% *Osmanthus fragrans*



RT: 38.17 AI: 1739 KI: 1740 **Oplopanone**

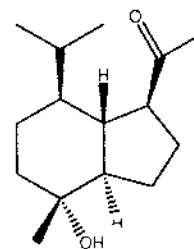
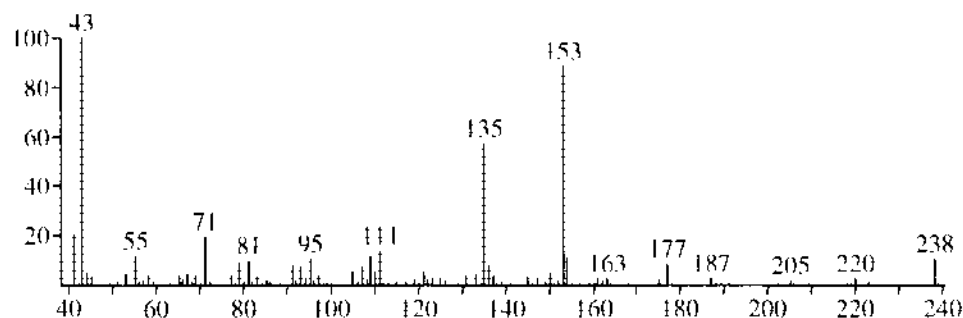
CAS#: 1911-78-0 MF: C₁₅H₂₆O₂ FW: 238 MSD LIB#: 934

CN: ethanone, 1-(octahydro-4-hydroxy-4-methyl-7-(1-methylethyl)-1H-inden-1-yl)-, (1S-(1α,3αβ,4β,7α,7αα))-

Synonyms: none

Source: *Juniperus recurva* oil ex RK Thappa, India, identified by P. Weyerstahl;

1.20% *Chamaecyparis pisifera*, JEOR 3:1(1991); 0.70% *Chamaecyparis lawsonia*



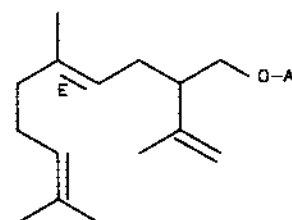
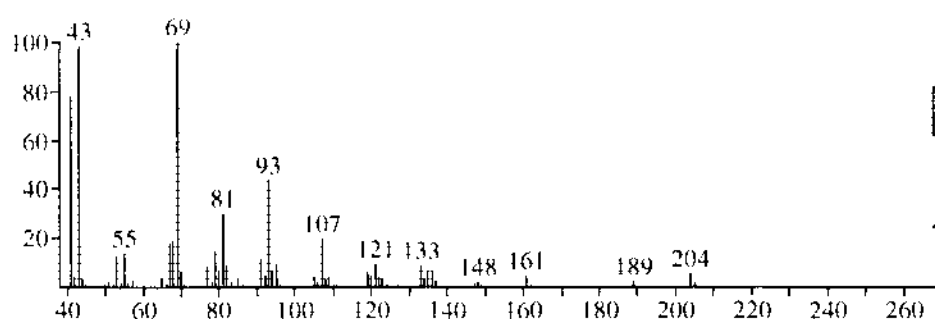
RT: 38.19 AI: 1739 KI: 1740 **Sesquilandulyl acetate <(E)->**

CAS#: 122346-20-7 MF: C₁₇H₂₈O₂ FW: 264 MSD LIB#: 1411

CN: 4,8-decadien-1-ol, 5,9-dimethyl-2-(1-methylethenyl)-, acetate, (E)-

Synonyms: sesquilandulol acetate<trans->

Source: ref. cpd. ex Dragoco ex G. Schmaus



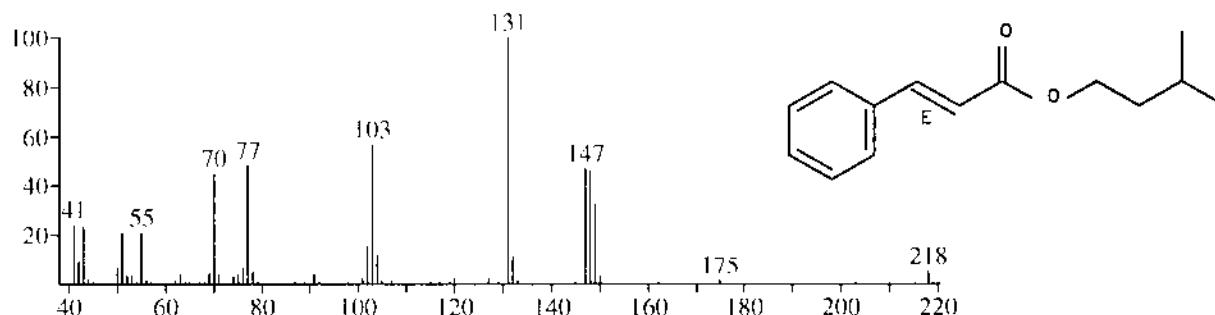
RT: 38.21 AI: 1740 KI: 1741 **Isoamyl cinnamate <(E)->**

CAS#: 85180-66-1 MF: C₁₄H₁₈O₂ FW: 218 MSD LIB#: 852

CN: 2-propenoic acid, 3-phenyl-, 3-methylbutyl ester, (E)-

Synonyms: isoamyl trans-cinnamate

Source: Pfaltz & Bauer ex Art Tucker



RT: 38.21 AI: 1740 KI: 1741 **Mint sulfide**

CAS#: 72445-42-2 MF: C₁₅H₂₄S FW: 236 MSD LIB#: 1113

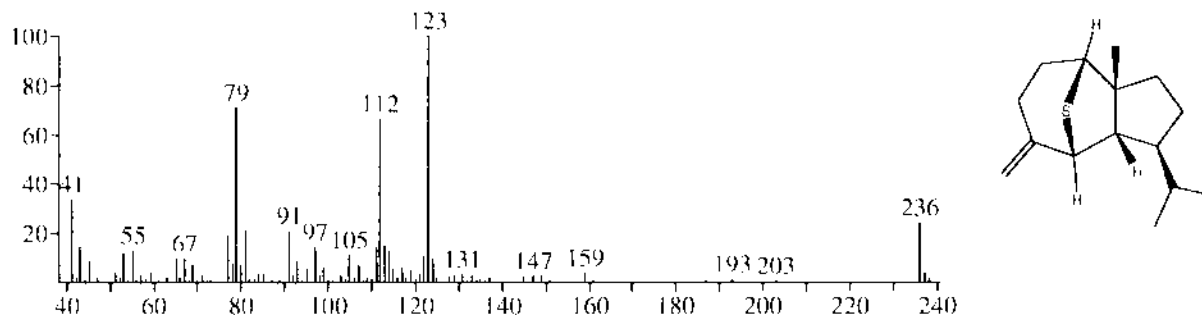
CN: 4,8-epithioazulene, decahydro-3a-methyl-7-methylene-1-(1-methylethyl)-,

(1S,3aR,4R,8R,8aS)-

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl; 0.10% *Narcissus poeticus*, JFOR 4:41(1992);

0.03% *Salvia sclarea*



RT: 38.22 AI: 1740 KI: 1741 **Farnesal <(2E,6E)->**

CAS#: 502-67-0 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1723

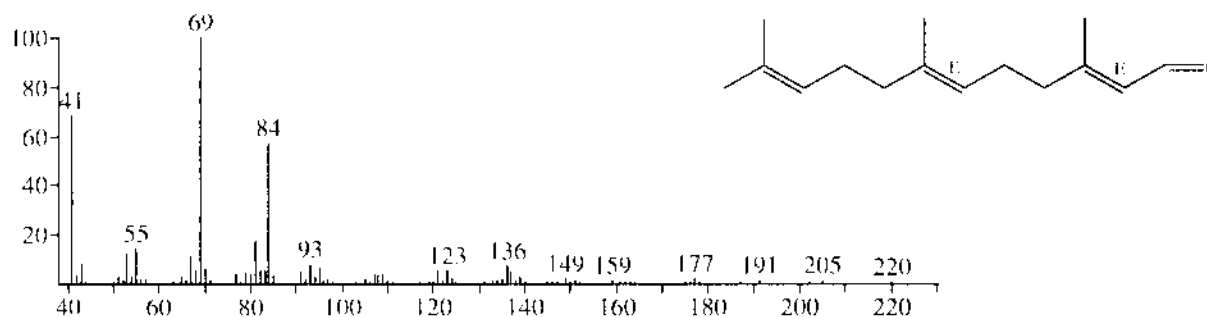
CN: 2,6,10-dodecatrinal, 3,7,11-trimethyl-, (2E,6E)-

Synonyms: none

Source: H&R ex Peter Weyerstahl; 1.10% *Cymbidium goeringii*,

p. 211, in: The Scent of Orchids, Roche Basel (ed.), Elsevier, Amsterdam(1993);

1.00% *Hibiscus abelmoschus*; 0.47% *Zingiber officinale*



RT: 38.24 AI: 1740 KI: 1742 **Bisabolone <(6R,7R)->**

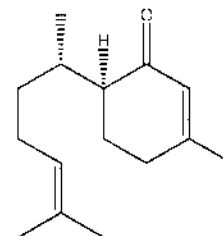
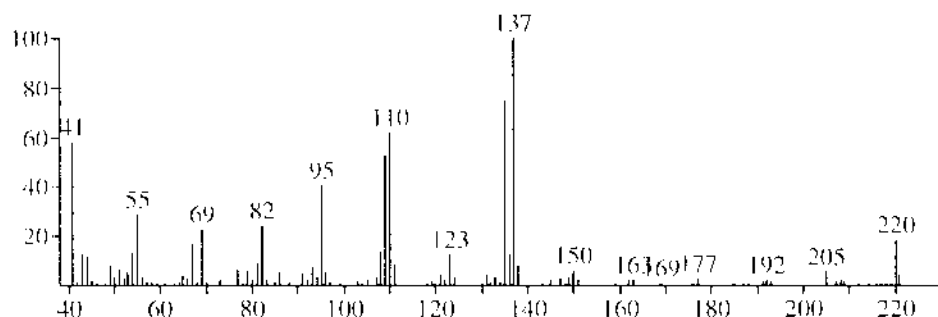
CAS#: 72441-71-5 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 138

CN: 2-cyclohexen-1-one, 6-(1,5-dimethyl-4-hexenyl)-3-methyl-, (R-(R*,R*))-

Synonyms: α -oxobisabolene

Source: Amyris, comm. oil, Haiti ex Harold Bussenins; 0.30% *Amyris balsamifera*.

Phytochem 28:1909(1989)



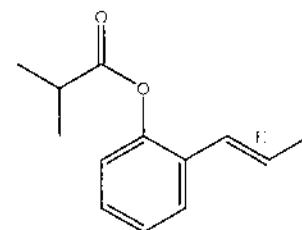
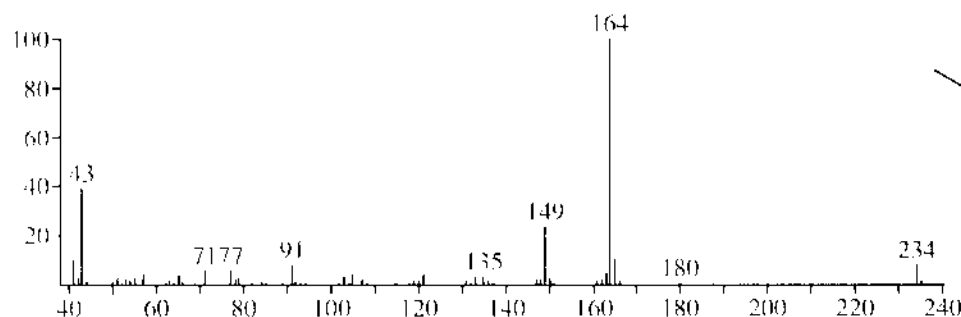
RT: 38.24 AI: 1740 KI: 1742 **Pseudoisogenyl isobutyrate <(E)->**

CAS#: 000-00-0 MF: C₁₄H₁₈O₃ FW: 234 MSD LIB#: 1821

CN: not assigned

Synonyms: none

Source: *Pimpinella peregrina* root oil ex K-H Kubeczka



RT: 38.26 AI: 1741 KI: 1742 **Cedr-8(15)-en-9- α -ol, acetate**

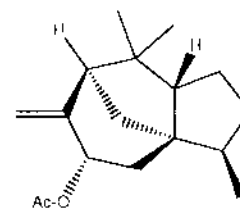
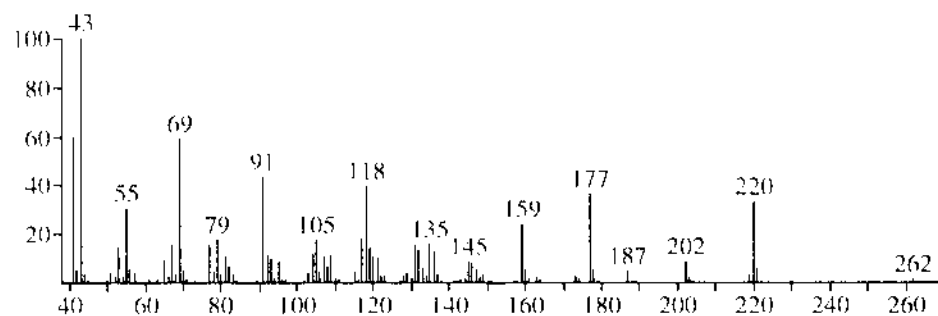
CAS#: 65082-66-8 MF: C₁₇H₂₆O₂ FW: 262 MSD LIB#: 394

CN: 1H-3a,7-methanoazulen-5-ol, octahydro-3,8,8-trimethyl-6-methylene-, acetate,

(3R-(3 α ,3 β ,5 β ,7 β ,8 α))-

Synonyms: cedrenol acetate; 3(15)-cederen-4 α -ol, acetate;

Source: acetylation of Cedr-8(15)-en-9-ol(6668)



RT: 38.26 AL: 1741 KI: 1742 **Khusimol**

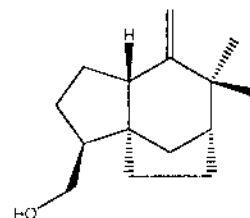
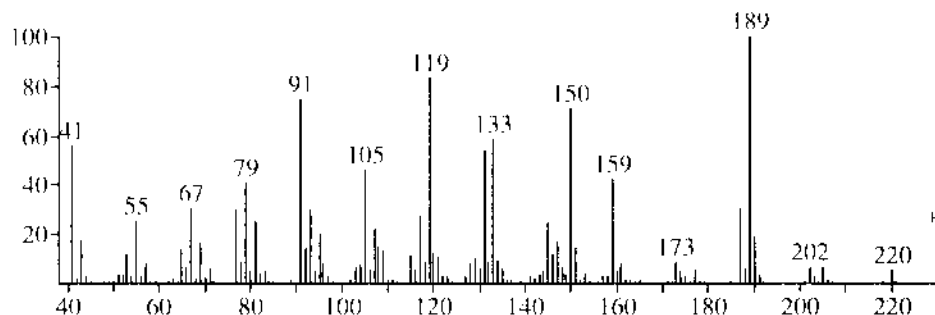
CAS#: 16223-63-5 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1556

CN: 1H-3a,6-methanoazulene-3-methanol, octahydro-7,7-trimethyl-8-methylene-, (3S,3aR,6R,8aS)-

Synonyms: zizanol; tricyclovetivenol; khusenol

Source: vetiver oil, alcohol fraction ex Nicole Sellier; 1.00% *Vetiveria zizanoides*.

Rivista Ital. EPPOS 54:315(1972)



RT: 38.30 AL: 1742 KI: 1743 **Farnesol <(2E,6E)->**

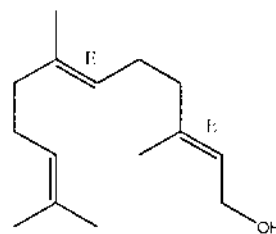
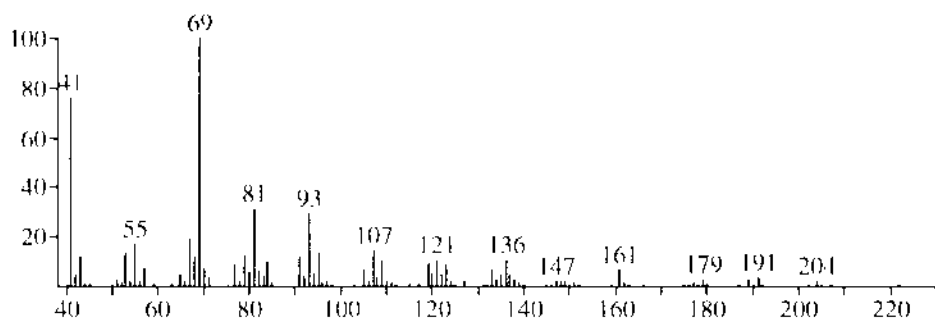
CAS#: 106-28-5 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 707

CN: 2,6,10-dodecatrien-1-ol, 3,7,11-trimethyl-, (E,E)

Synonyms: farnesol, trans, trans-

Source: ref. cpd. ex E. von Rudloff; 56.51% *Eucalyptus tereticornis*, JEOR 8:111(1996);

30.10% *Jasminum azoricum*; 16.80% *Helichrysum odoratissimum*



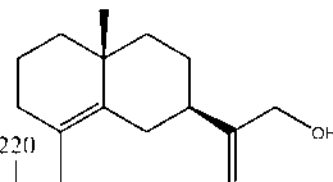
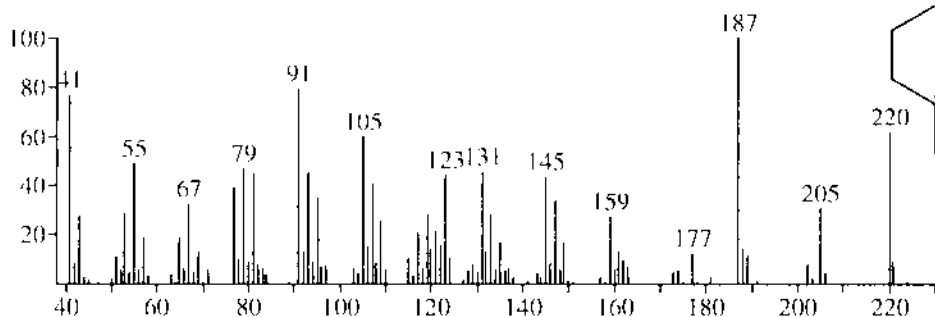
RT: 38.40 AL: 1745 KI: 1746 **Costol <γ->**

CAS#: 65018-14-6 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1729

CN: 2-naphthaleneethanol, 1,2,3,4,4a,5,6,7-octahydro-4a,8-dimethyl-,β,-methylene-, (2R, 4aR)-

Synonyms: γ costol

Source: Costus root oil ex Husnu Baser



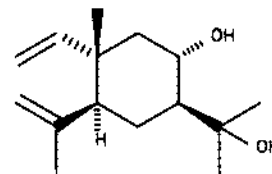
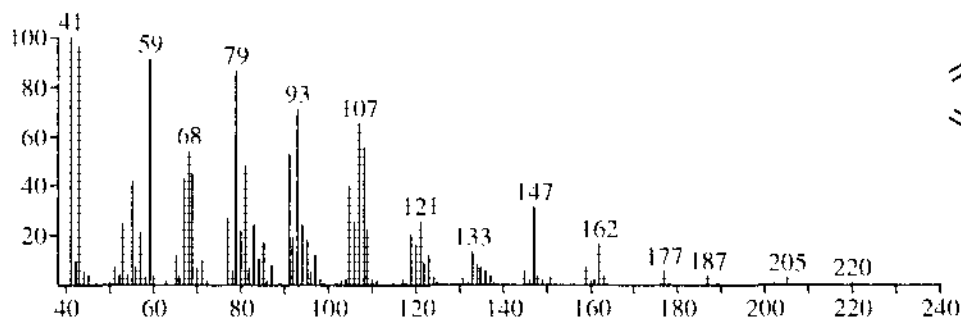
RT: 38.44 AI: 1746 KI: 1747 **Elemodiol <8- α -11>**

CAS#: 64373-81-5 MF: C₁₅H₂₆O₂ FW: 238 MSD LIB#: 651

CN: cyclohexanemethanol, 4-ethenyl-2-hydroxy- $\alpha,\alpha,4$ -trimethyl-5-(1-methylethenyl)-, (1S-(1 α ,2 β ,4 β ,5 α))-

Synonyms: none

Source: ref. cpd. ex San Feliciano



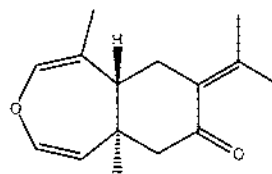
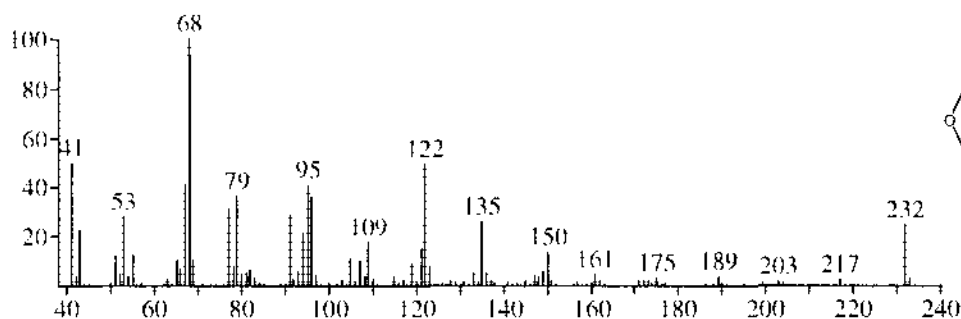
RT: 38.46 AI: 1746 KI: 1748 **Selina-1,3,7(11)-trien-8-one epoxide**

CAS#: 179668-88-3 MF: C₁₅H₂₀O₂ FW: 232 MSD LIB#: 700

CN: 3-benzoxepin-7(6H)-one, 5 α ,8,9,9a-tetrahydro-1,5a-dimethyl-8-(1-methylethylidene)-, trans-

Synonyms: none

Source: *Eugenia uniflora* oil ex Selene Maria de Moraes, Brazil



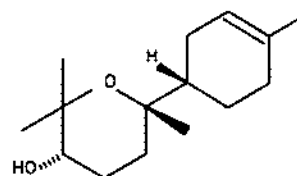
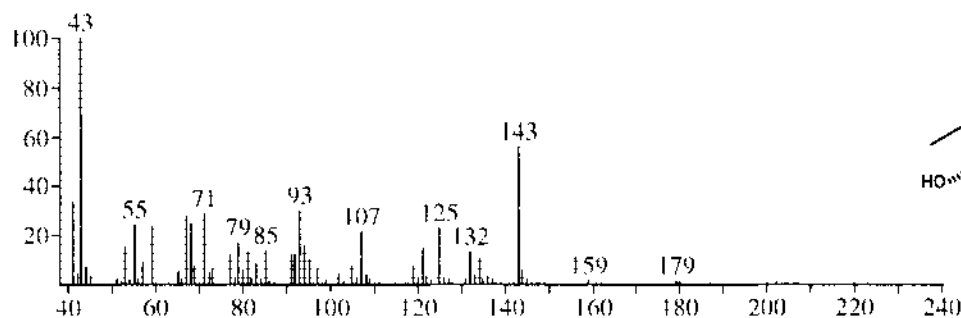
RT: 38.50 AI: 1748 KI: 1749 **Bisabolol oxide A < α ->**

CAS#: 22567-36-8 MF: C₁₅H₂₆O₂ FW: 238 MSD LIB#: 432

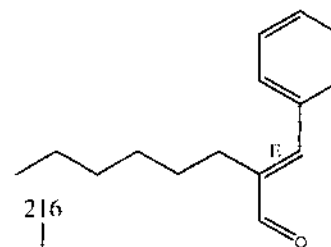
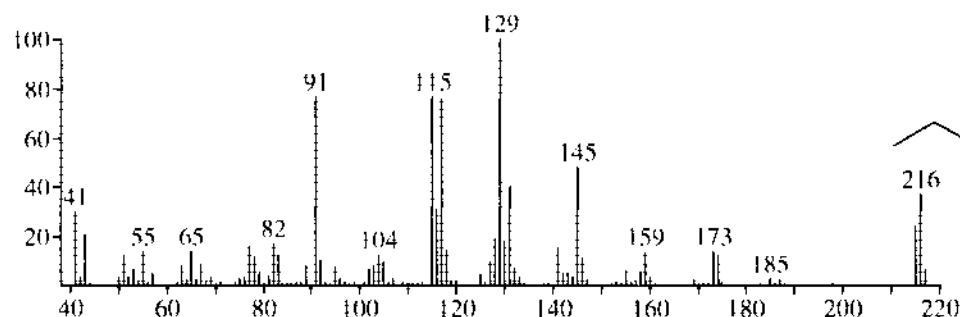
CN: 2H-pyran-3-ol, tetrahydro-2,2,6-trimethyl-6-(4-methyl-3-cyclohexen-1-yl)-, (3S-(3 α ,6 α .(R^{*}))-

Synonyms: none

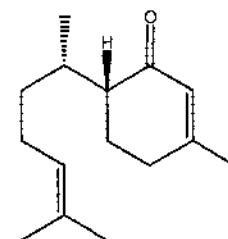
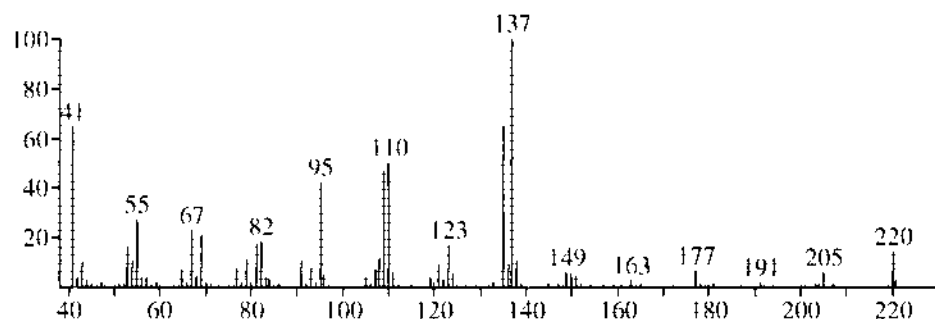
Source: Chamomile oil, Aromatics Intl. ex Art Tucker



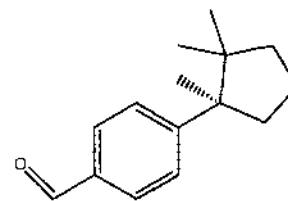
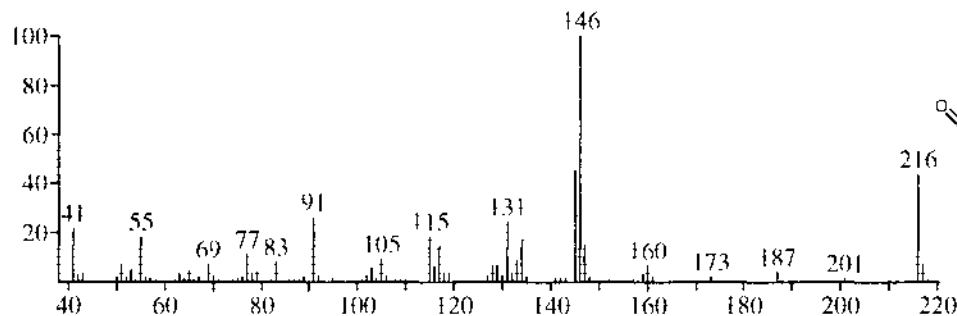
RT: 38.51 AI: 1748 KI: 1749 **Cinnamaldehyde <2-hexyl-(E)->**
 CAS#: 165184-98-5 MF: C₁₅H₂₀O FW: 216 MSD LIB#: 438
 CN: octanal, 2-(phenylmethylene)-, (2E)-
 Synonyms: 2-hexyl-cinnamaldehyde, trans-
 Source: Bedoukian Res. ex Art Tucker



RT: 38.52 AI: 1748 KI: 1749 **Bisabolone <(6S,7R)->**
 CAS#: 72441-70-4 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 139
 CN: 2-cyclohexen-1-one, 6-(1,5-dimethyl-4-hexenyl)-3-methyl-, (S-(R*,S*))-
 Synonyms: none
 Source: Amyris, comm. oil. Haiti ex Harold Bussenins; 0.60% *Amyris balsamifera*,
 Phytochem 28:1909(1989)



RT: 38.64 AI: 1751 KI: 1753 **Cupareneal**
 CAS#: 16982-01-7 MF: C₁₅H₂₀O FW: 216 MSD LIB#: 1888
 CN: benzaldehyde, 4-[(1R)-1,2,2-trimethylcyclopentyl]-
 Synonyms: none
 Source: *J. chinensis* wood sesquiterpenes ex Larry Cool



RT: 38.64 AI: 1751 KI: 1753 **Xanthorrhizol**

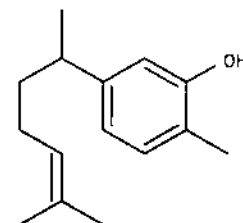
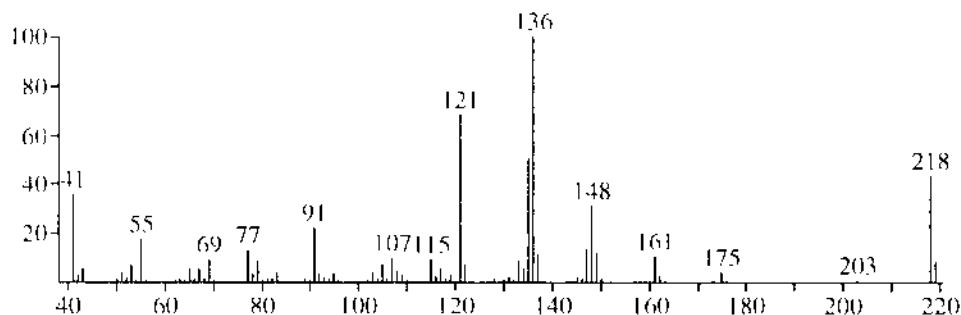
CAS#: 30199-26-9 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 522

CN: phenol, 5-(1,5-dimethyl-4-hexenyl)-2-methyl-

Synonyms: o-cresol, 5-(1,5-dimethyl-4-hexenyl)-

Source: *Curcuma aromatica* oil ex Synthite Chem., India; 25.70% *Curcuma aromatica*.

FIJ 7:19-22(1992): 21.50% *Curcuma xanthorrhiza*; 0.10% *Zingiber officinale*



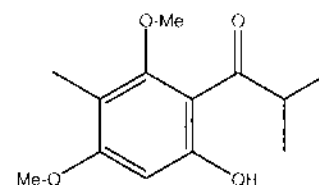
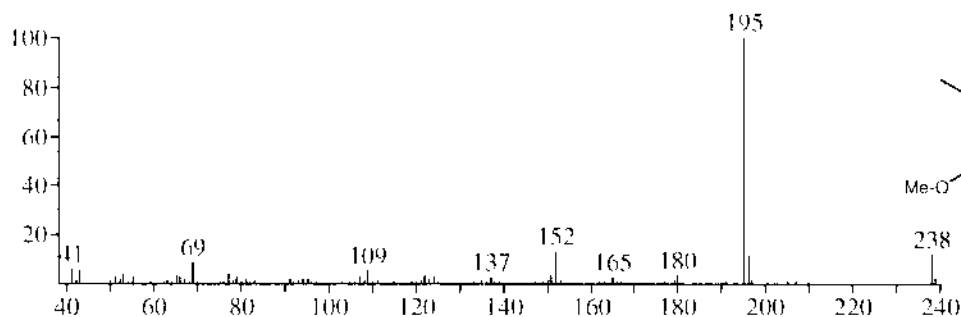
RT: 38.70 AI: 1753 KI: 1754 **Isobaeckeo**

CAS#: 98442-62-7 MF: C₁₃H₁₈O₄ FW: 238 MSD LIB#: 1679

CN: 1-propanone, 1-(6-hydroxy-2,4-dimethoxy-3-methylphenyl)-2-methyl-

Synonyms: none

Source: *Eucalyptus minuta* oil ex JJ Brophy



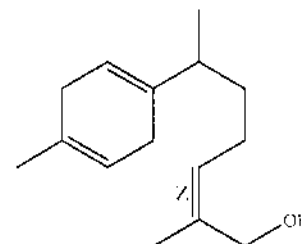
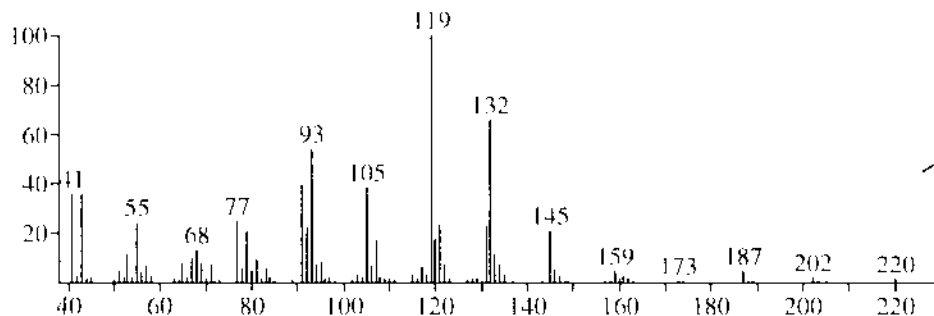
RT: 38.75 AI: 1754 KI: 1756 **Curcumen-12-ol <β-(Z)->**

CAS#: 698365-10-5 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1880

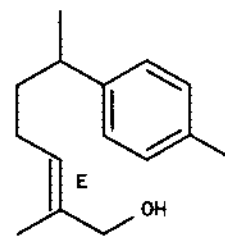
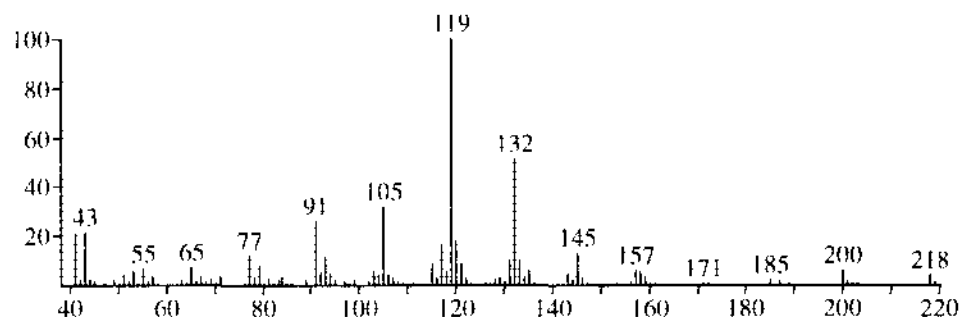
CN: 2-hepten-1-ol, 2-methyl-6-(4-methyl-1,4-cyclohexadien-1-yl)-, (2Z,6R)

Synonyms: none

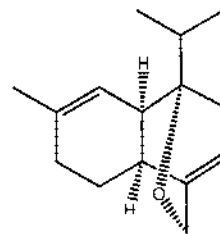
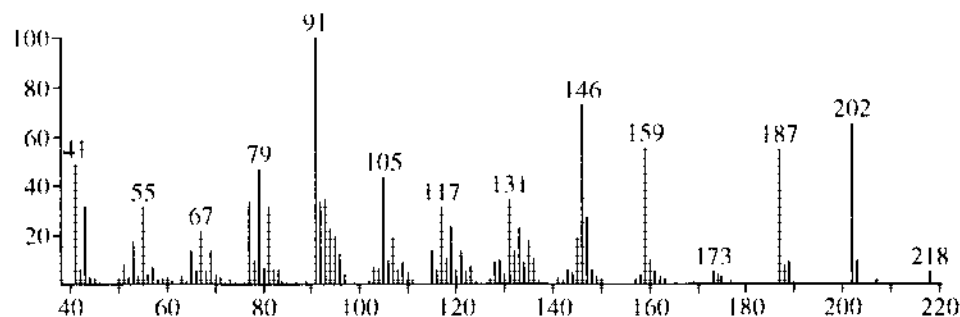
Source: W. Australia Sandalwood oil ex Norbert Braum



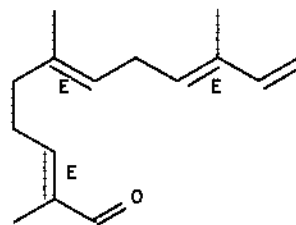
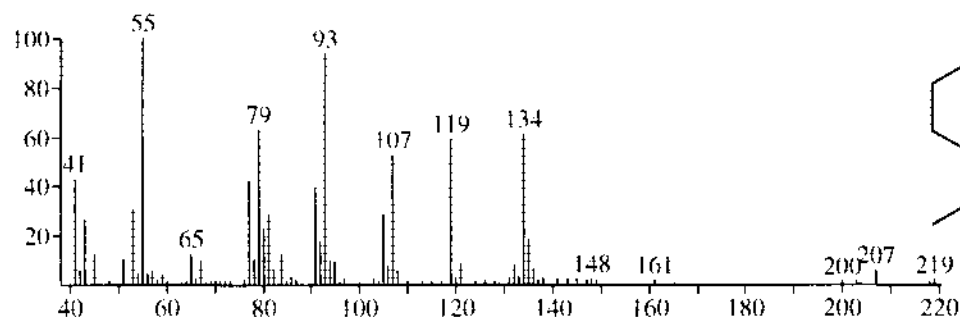
RT: 38.75 AI: 1754 KI: 1756 **Nuciferol <(E)->**
 CAS#: 39599-18-3 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 1382
 CN: 2-hepten-1-ol, 2-methyl-6-(4-methylphenyl)-, (E)-
 Synonyms: none
 Source: Sandalwood oil ex Brian Lawrence



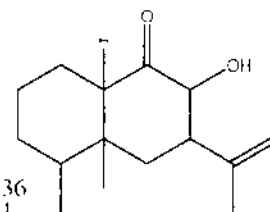
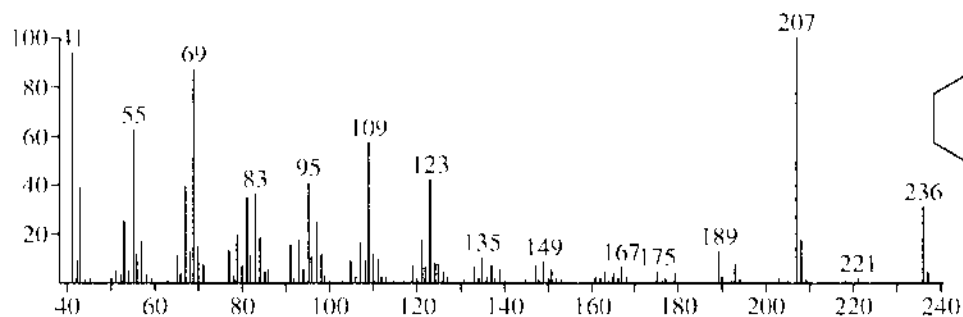
RT: 38.78 AI: 1755 KI: 1756 **Amorpha-4,9-diene <7,14-anhydro->**
 CAS#: 394251-67-3 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 1896
 CN: 3H-1,4-ethanylylidene-1H-2-benzopyran, 4a,5,6,8a-tetrahydro-7-methyl-1-(1-methylethyl)-, (1S,4aS,8aR)-
 Synonyms: none
 Source: ref. cpd. ex W. Koenig



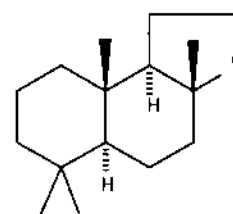
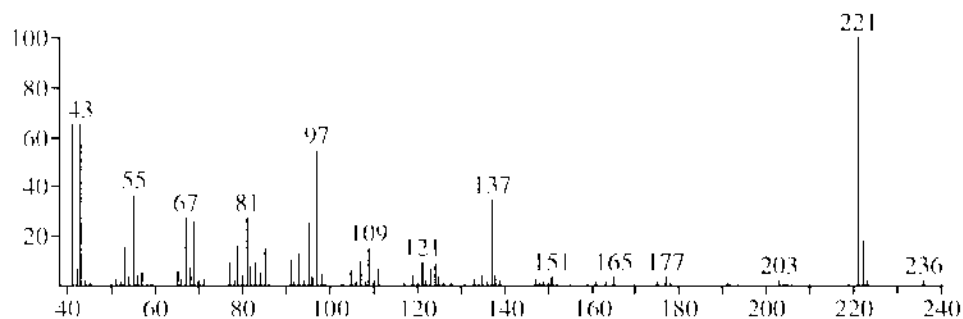
RT: 38.78 AI: 1755 KI: 1756 **Sinensal <α->**
 CAS#: 17909-77-2 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 1224
 CN: 2,6,9,11-dodecatetraenal, 2,6,10-trimethyl-, (E,E,E)-
 Synonyms: none
 Source: ruby sweet orange oil ex Z. Fleisher; 2.93% *Citrus sinensis*, JEOR 7:105(1995);
 0.93% *Citrus reticulata*; 0.23% *Citrus deliciosa*



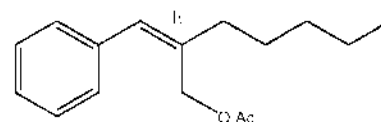
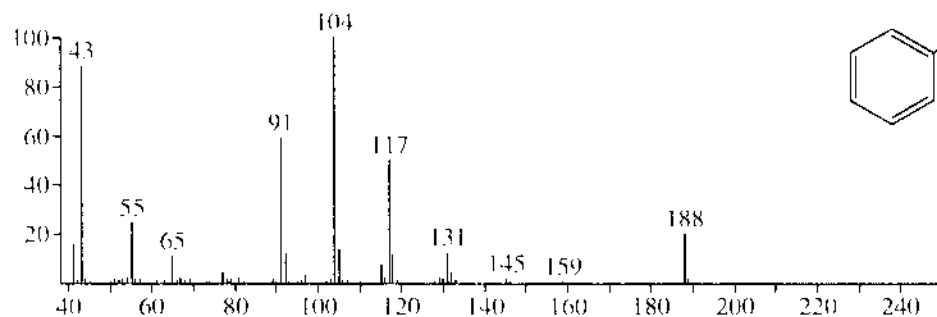
RT: 38.80 AI: 1756 KI: 1757 **Eremophilone <8-hydroxy-dihydro->**
 CAS#: 132858-00-5 MF: C₁₅H₂₄O₂ FW: 236 MSD LIB#: 1801
 CN: 1(2H)-naphthalenone, octahydro 2-hydroxy-3-isopropenyl-4a,5-dimethyl-
 Synonyms: none
 Source: *Eremophila mitchelli* oil ex Ian Southwell



RT: 38.81 AI: 1756 KI: 1757 **Ambroxide**
 CAS#: 6790-58-5 MF: C₁₆H₂₈O FW: 236 MSD LIB#: 118
 CN: naphtho[2,1-b]furan, dodecalhydro-3a,6,6,9a-tetramethyl-(3a α ,5a β ,9a α ,9b β)-
 Synonyms: ambrox
 Source: Aldrich Chem. ex Art Tucker



RT: 38.82 AI: 1756 KI: 1758 **Cinnamyl acetate < α -amyl->**
 CAS#: 7493-78-9 MF: C₁₆H₂₂O₂ FW: 246 MSD LIB#: 448
 CN: 1-heptanol, 2-(phenylmethylene)-, acetate
 Synonyms: none
 Source: IFF ex Art Tucker



RT: 38.90 AI: 1759 KI: 1760 **Benzyl benzoate**

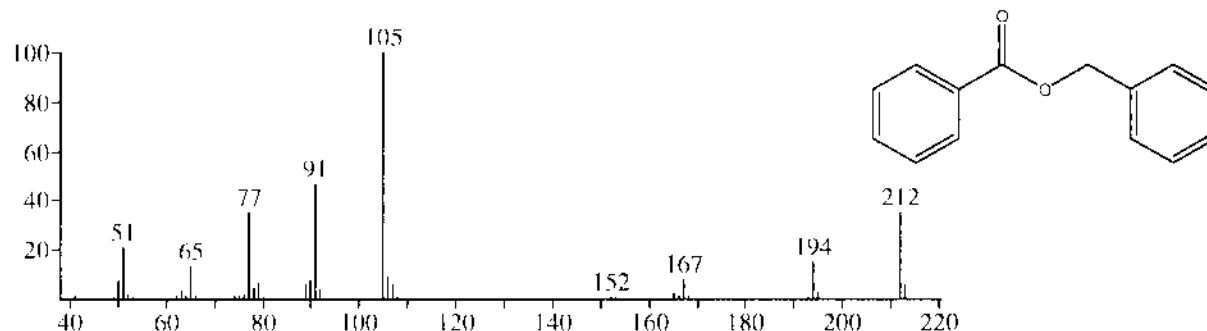
CAS#: 120-51-4 MF: C₁₄H₁₂O₂ FW: 212 MSD LIB#: 286

CN: benzyl benzoate

Synonyms: benylate; ascabin; ascabiol; novoscabin; peruscabin

Source: Pfaltz & Bauer ex H. Hills; 84.69% *Cinnamomum zeylanicum* (stem bark),

JEOR 8:327(1996); 79.43% *Narcissus jonquilla*; 65.42% *Cinnamomum zeylanicum* (leaf)



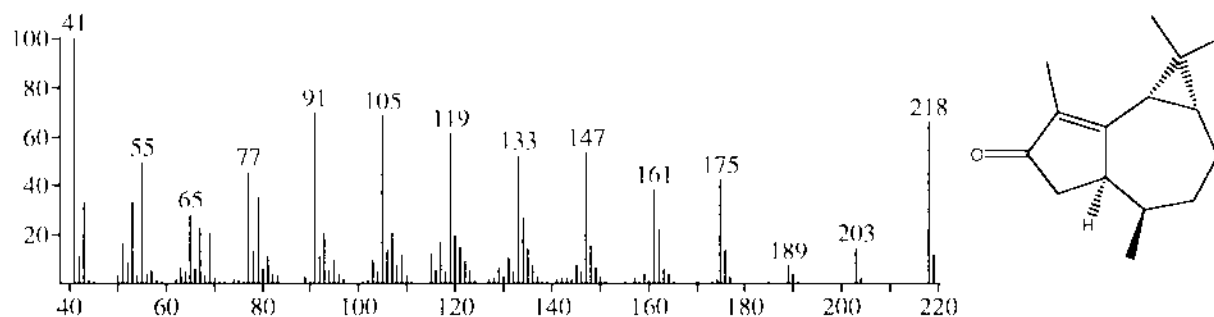
RT: 38.92 AI: 1759 KI: 1760 **Cyclocolorenone**

CAS#: 489-45-2 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 530

CN: 6H-cyclopropte)azulen-6-one, 1.1a,2.3,4.4a,5,7b-octahydro-1.1,4,7-tetramethyl-, (1aR,4R,4aR,7bS)-

Synonyms: none

Source: ref. epl. ex P. Weyerstahl



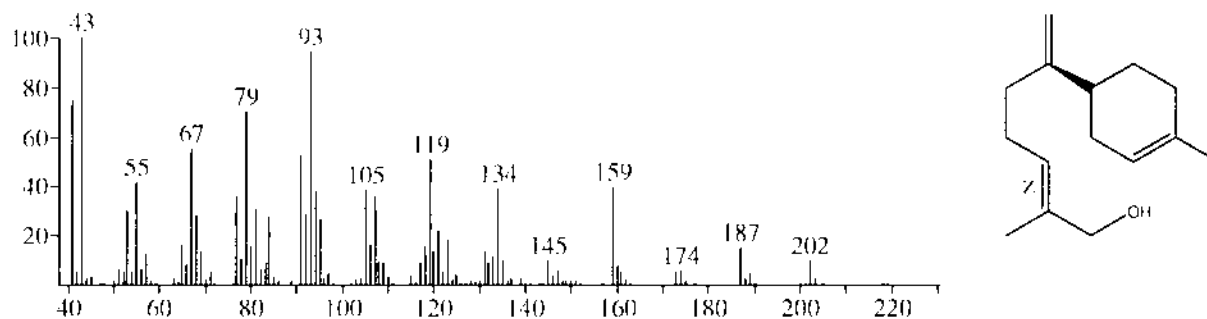
RT: 38.94 AI: 1760 KI: 1761 **Lanceol <(Z)->**

CAS#: 10067-28-4 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1398

CN: 2,6-heptadien-1-ol, 2-methyl-6-(4-methyl-3-cyclohexen-1-yl)-, (S-(Z))-

Synonyms: cis-lanceol

Source: Sandalwood oil ex Brian Lawrence; 1.70% *Santalum album*, Dragoco Rept. 107(1988)



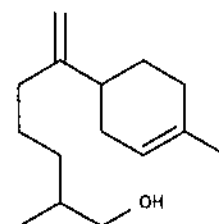
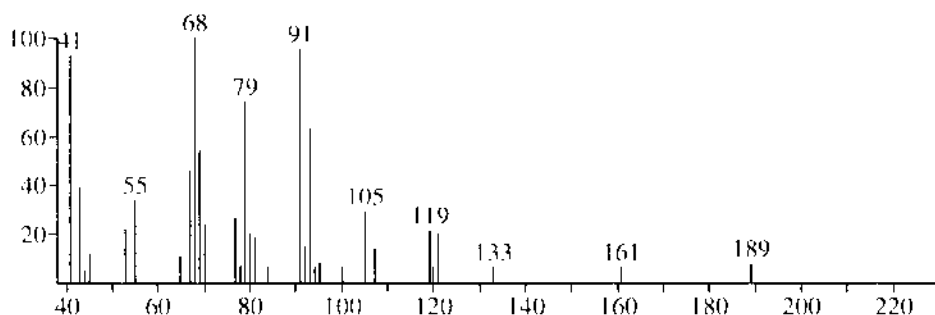
RT: 38.95 AI: 1760 KI: 1761 **Bisaboladien-12-ol <2,7(14)->**

CAS#: 000-00-0 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 1155

CN: not assigned

Synonyms: none

Source: *Nidorella resedifolia* ex P. Weyerstahl



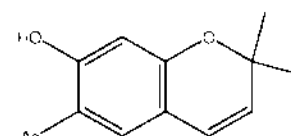
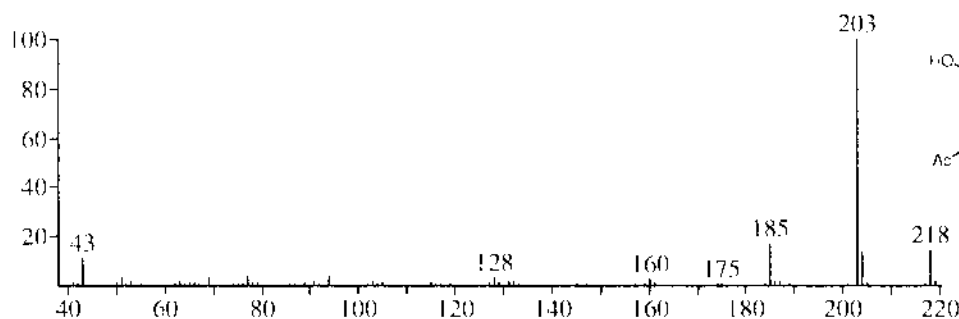
RT: 38.98 AI: 1761 KI: 1762 **Eupatoriochromene**

CAS#: 19013-03-7 MF: C₁₃H₁₄O₃ FW: 218 MSD LIB#: 776

CN: ethanone, 1-(7-hydroxy-2,2-dimethyl-2H-1-benzopyran-6-yl)-

Synonyms: desmethylececalin

Source: *Hemizonia fitchii* leaf oil, RP Adams #3383; 0.14% *Ageratum houstonianum*, JEOR 8:129(1996)



RT: 39.01 AI: 1762 KI: 1763 **Aristolone**

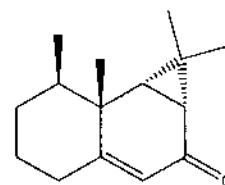
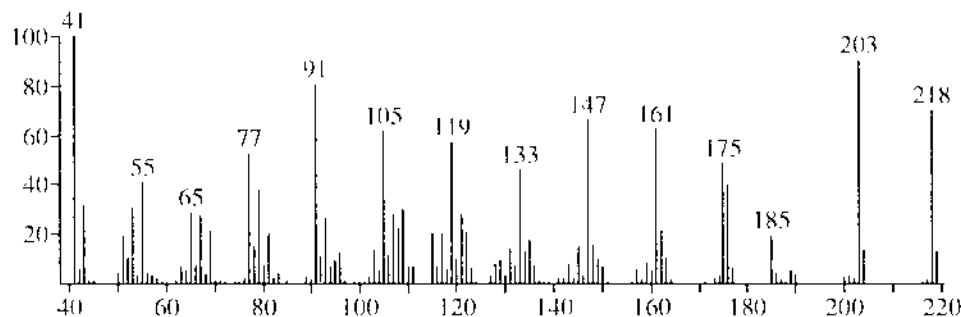
CAS#: 6831-17-0 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 1417

CN: 2H-cyclopropa(a)naphthalene-2-one, 1,1a,4,5,6,7,7a,7b-octahydro-1,1,7,7a-tetramethyl-, (1aa,7a,7aa,7ba)-

Synonyms: none

Source: Snakeroot oil ex Art Tucker; 3.00% *Anomum muricarpum*, p. 333 in:

Flav. & Frag., A World Persp., Lawrence, et al. (eds.), Proc. 10th Intl. Cong. Ess. Oils, Elsevier, Amsterdam (1988); 1.05% *Psiadia viscosa*; 1.00% *Nardostachys jatamansi*



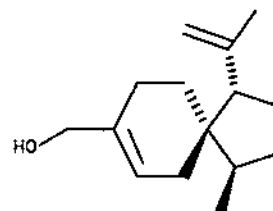
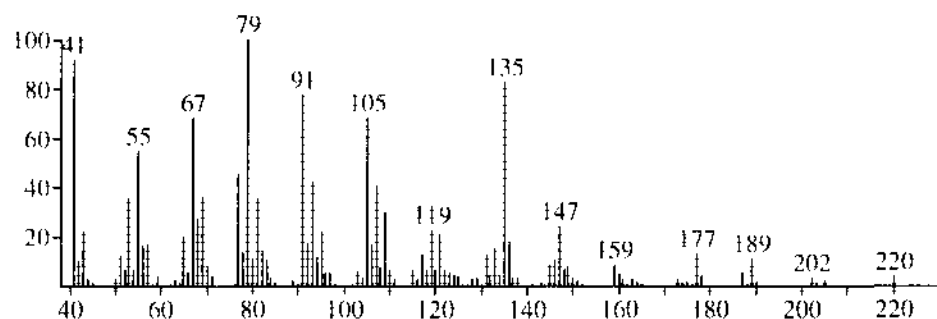
RT: 39.03 AI: 1762 KE: 1763 **Acoradienol <β>**

CAS#: 149496-35-5 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1130

CN: spiro(4,5)dec-7-ene-8-methanol, 1-methyl-4-(1-methylethenyl)-, (1R-(1α,4β,5α))-

Synonyms: 3,11-acoradien-12-ol

Source: *Neocallotropis pancheri* ex P. Raharivelomanana



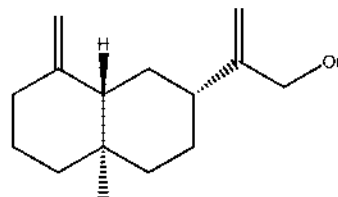
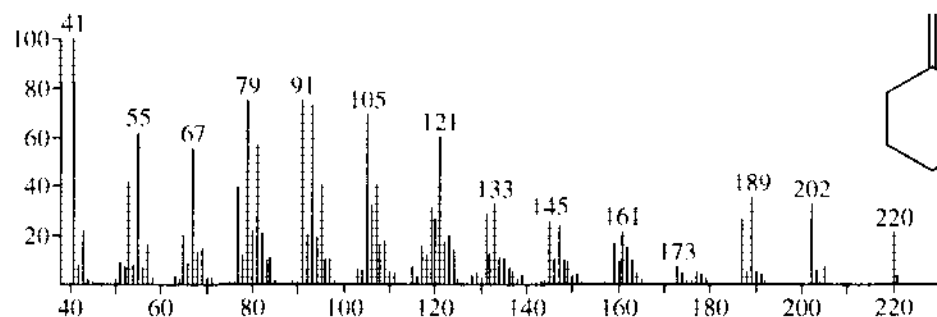
RT: 39.15 AI: 1765 KE: 1767 **Costol <β>**

CAS#: 515-20-8 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1730

CN: 2-naphthaleneethanol, decahydro-4a-methyl-β,8-bis(methylene)-, (2R, 4aR, 8aS)-

Synonyms: β-costol

Source: Costus root oil ex Husnu Baser



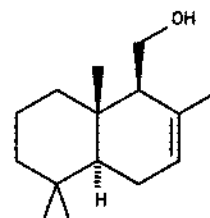
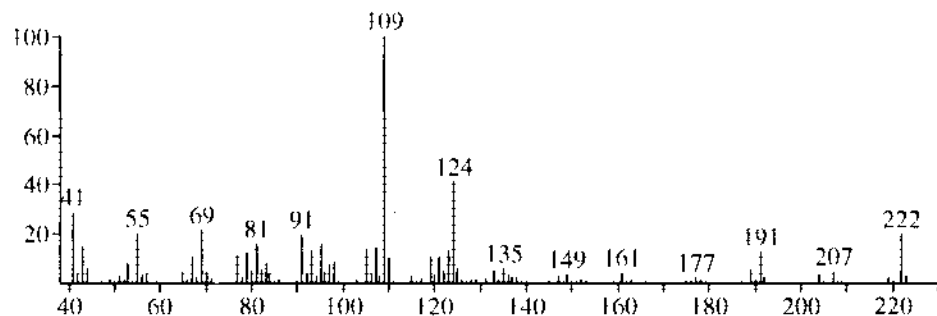
RT: 39.16 AI: 1766 KE: 1767 **Drimenol**

CAS#: 468-68-8 MF: C₁₅H₂₆O FW: 222 MSD LIB#: 141

CN: 1-naphthalenemethanol, 1,4,4a,5,6,7,8,8a-octahydro-2,5,5,8a-tetramethyl-, (1S-(1α,4αβ,8αα))-

Synonyms: drim-7-en-11-ol; 8-7(8)-15-hydroxyiresane

Source: comm. Amyris oil. Port au Prince, Haiti; 5.67% *Canella winterana*, JHEOR 559(1995); 3.00% *Polygonum odoratum*; 1.10% *Amyris balsamifera*



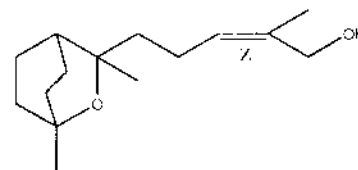
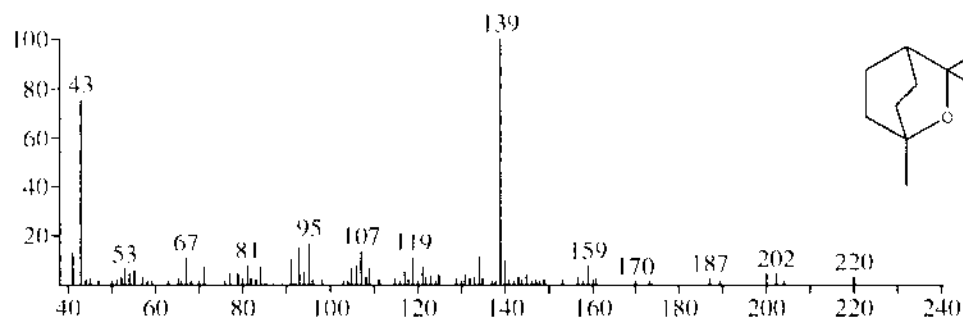
RT: 39.16 AI: 1766 KI: 1767 **Sesquicineole <12-hydroxy-(Z)->**

CAS#: 699007-30-2 MF: C₁₅H₂₆O₂ FW: 238 MSD LIB#: 1879

CN: 2-penten-1-ol,5-(1,3-dimethyl-2-oxabicyclo(2.2.2)oct-3-yl)-2-methyl-, (2Z)-

Synonyms: hydroxysesquicineole,(12Z-)

Source: W. Australia Sandalwood oil ex Symise ex Norbert Braum



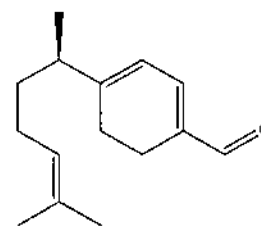
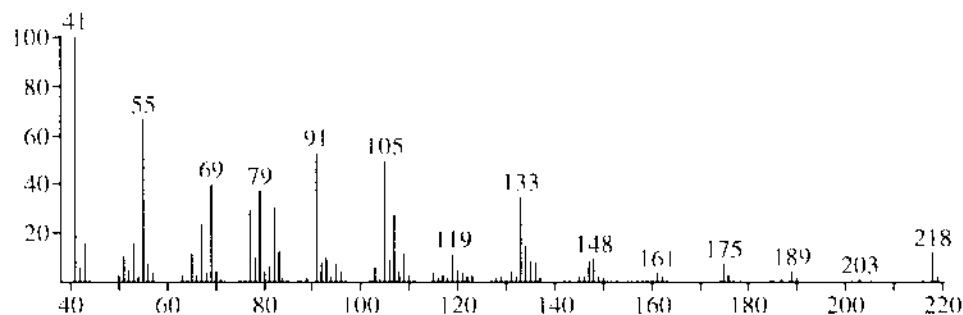
RT: 39.19 AI: 1766 KI: 1768 **Curcumen-15-al <y->**

CAS#: 235421-68-8 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 527

CN: 1,3-cyclohexadiene-1-carboxaldehyde, 4-((1S)-1,5-dimethyl-4-hexenyl)-

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl



RT: 39.21 AI: 1767 KI: 1768 **Cedryl acetate**

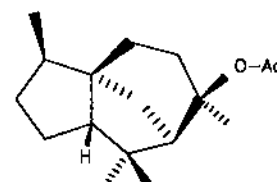
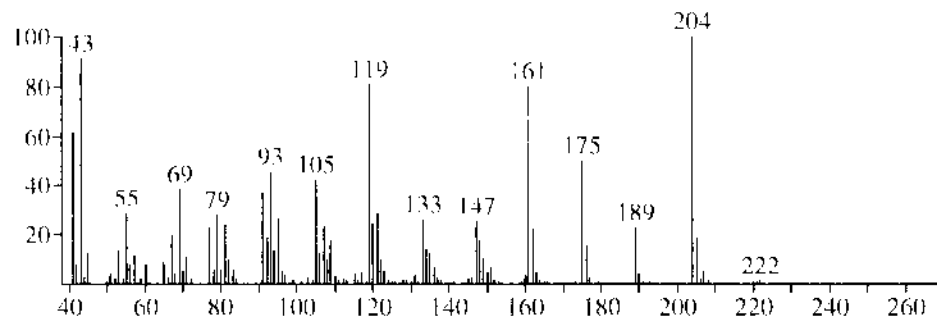
CAS#: 77-54-3 MF: C₁₇H₂₈O₂ FW: 264 MSD LIB#: 418

CN: 1H 3a,7-methanoazulen 6-ol, octahydro-3,6,8,8-tetramethyl-, acetate,(3R-(3α,3αβ,6α,7β,8αα)-

Synonyms: 8-β-cedran-8-ol, acetate: cedrol acetate

Source: Pfaltz & Bauer: 0.01% *Citrus limon*, FFI 9:159(1994); 0.01% *Citrus sudachi* (peel);

0.01% *Citrus inflata* (peel)



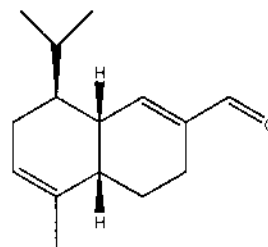
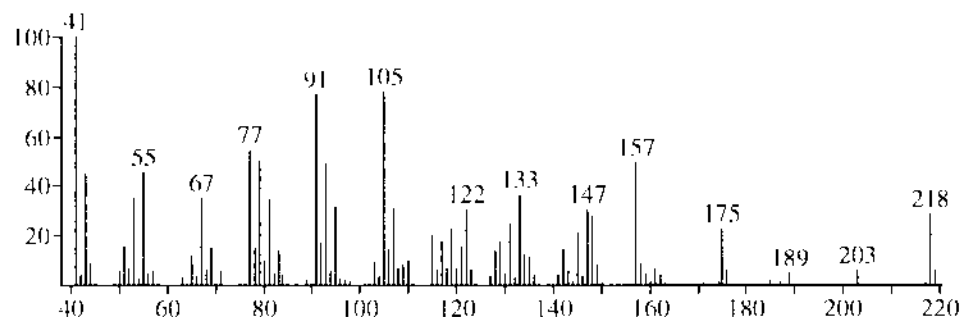
RT: 39.22 AI: 1767 KI: 1768 **Muurolene <14-oxy-a>**

CAS#: 135118-53-5 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 927

CN: 2-naphthalenecarboxaldehyde, 3,4,4a,7,8,8a-hexahydro-5-methyl-8-(1-methylethyl)-, (4aS-(4aα,8α,8aα))-

Synonyms: α muurolen 15 al

Source: *Juniperus oxycedrus* wood oil ex AF Barrero



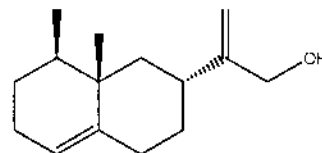
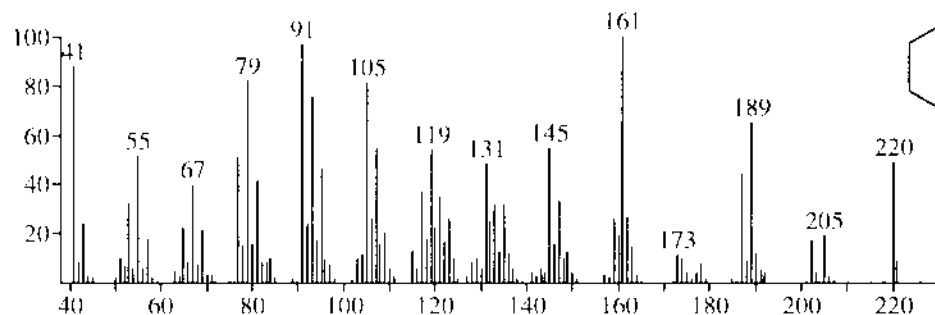
RT: 39.22 AI: 1767 KI: 1768 **Valencene <13-hydroxy>**

CAS#: 438536-20-0 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1772

CN: 2-naphthaleneethanol, 1,2,3,4,6,7,8,8a-octahydro-8,8a-dimethyl-β-methylene-, (2R,8R,8aS)-

Synonyms: none

Source: *Chamaecyparis nootkatensis* wood oil ex Joe Karchesy



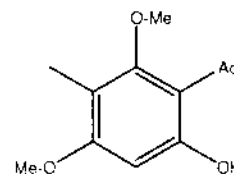
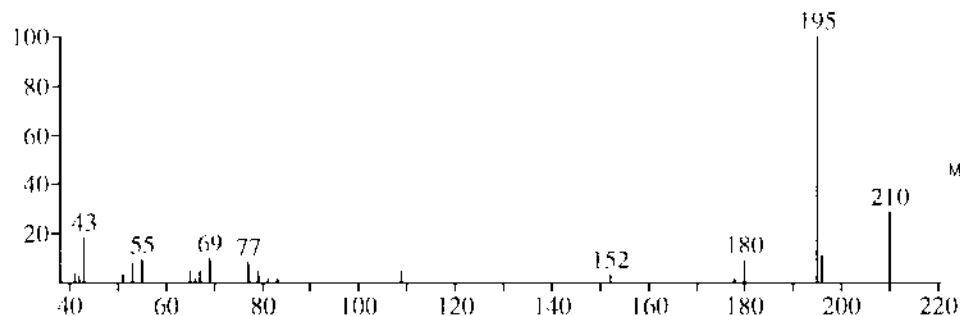
RT: 39.26 AI: 1768 KI: 1769 **Bancroftinone**

CAS#: 14964-98-8 MF: C₁₁H₁₄O₄ FW: 210 MSD LIB#: 1670

CN: ethanone, 1-(6-hydroxy-2,4-dimethoxy-3-methylphenyl)-

Synonyms: none

Source: *Backhousia bancroftii* ex JJ Brophy



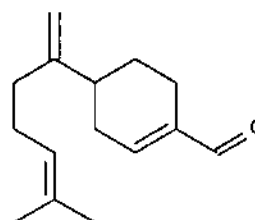
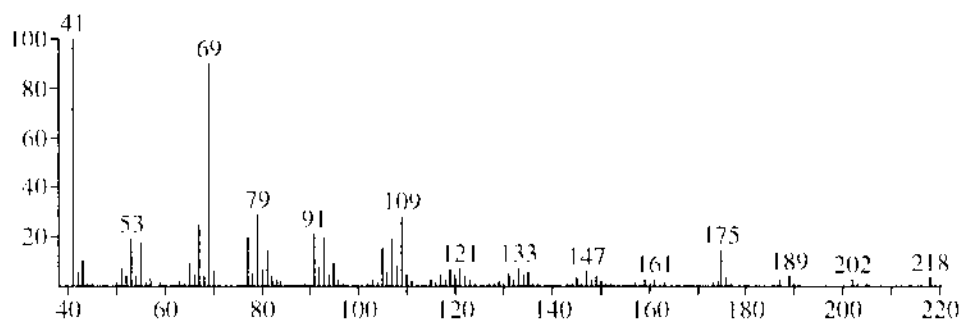
RT: 39.26 AI: 1768 KI: 1769 **Bisabolenal <β>**

CAS#: 147029-14-9 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 1131

CN: 1-cyclohexene-1-carboxaldehyde, 4-(5-methyl-1-methylene-4-hexenyl)-, (S)-

Synonyms: none

Source: *Neocallotropis pancheri* ex P. Raharivelomanana



RT: 39.31 AI: 1770 KI: 1771 **Squamulosone**

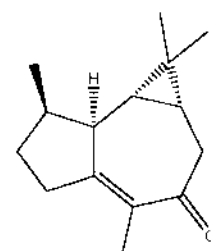
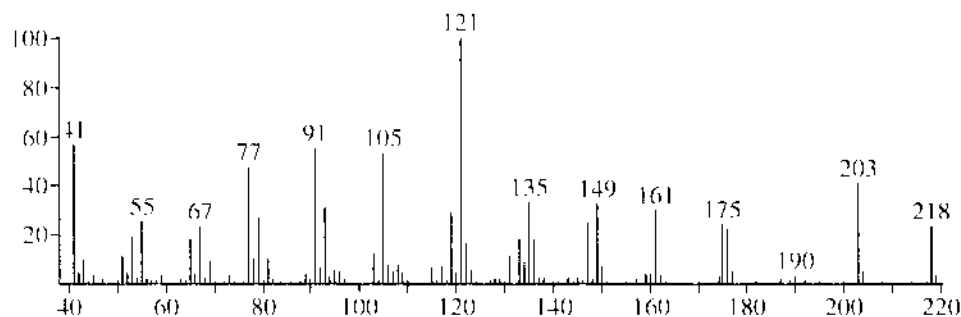
CAS#: 34413-94-0 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 973

CN: 3H-cycloprope)azulen-3-one, 1,1a,2,5,6,7,7a,7b-octahydro-1,1,4,7-tetramethyl-,

(1aR-(1aα,7a,7aβ,7bα))-

Synonyms: none

Source: Labdanum oil ex P. Weyerstahl



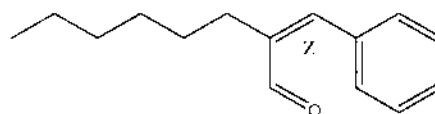
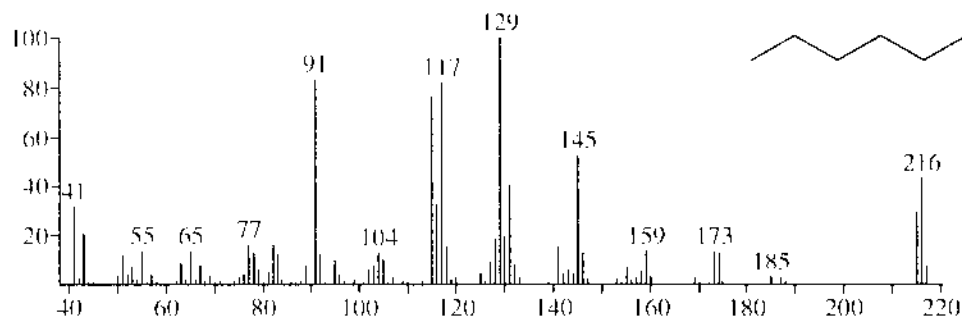
RT: 39.42 AI: 1773 KI: 1774 **Cinnamaldehyde <2-hexyl-(Z)>**

CAS#: 364364-06-7 MF: C₁₅H₂₀O FW: 216 MSD LIB#: 439

CN: octanal, 2-(phenylmethylene)-, (2Z)-

Synonyms: cinnamaldehyde <2-hexyl-(Z)>

Source: Bedoukian Res. ex Art Tucker



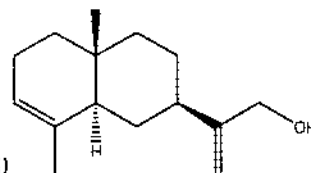
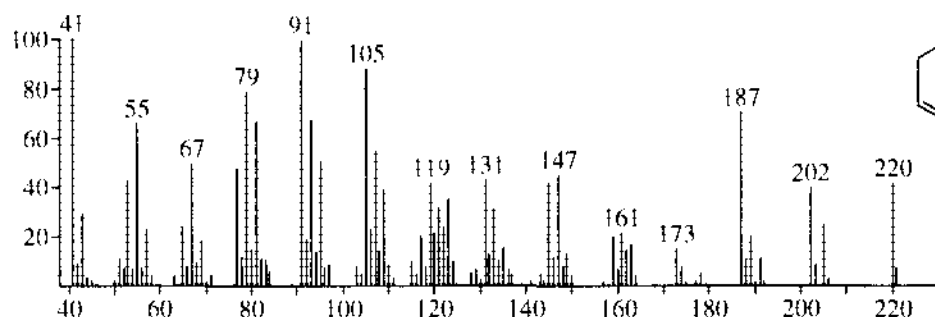
RT: 39.42 AI: 1773 KI: 1774 **Costol <α>**

CAS#: 65018-15-7 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1731

CN: 2-naphthalencethanol, 1,2,3,4,4a,5,6,8a-octahydro-4a,8-dimethyl-β-methylene-, (2R, 4aR, 8aR)-

Synonyms: α-costol

Source: Costus root oil ex Husnu Baser



RT: 39.42 AI: 1773 KI: 1774 **Pentadecanol <n>**

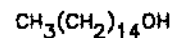
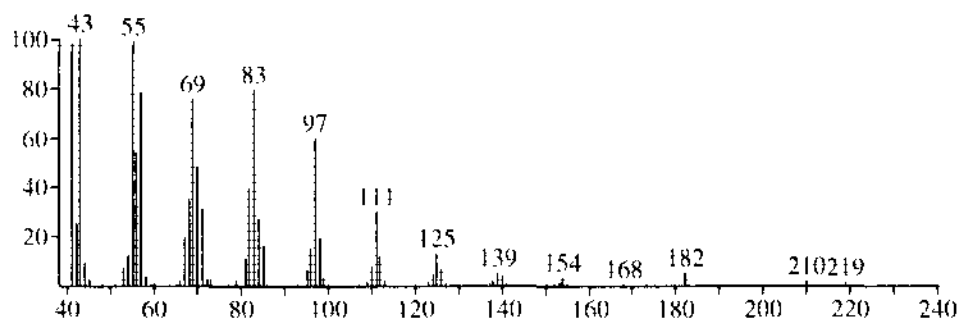
CAS#: 629-76-5 MF: C₁₅H₃₂O FW: 228 MSD LIB#: 26

CN: 1-pentadecanol

Synonyms: none

Source: ref. cpd. ex E. von Rudloff; 2.10% *Eucalyptus lehmanni*, FFJ 5:91(1990);

1.60% *Eucalyptus polyanthemus*; 0.01% *Rosa rugosa*



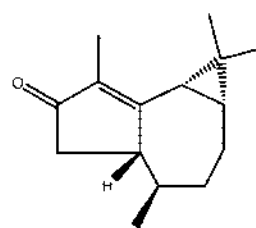
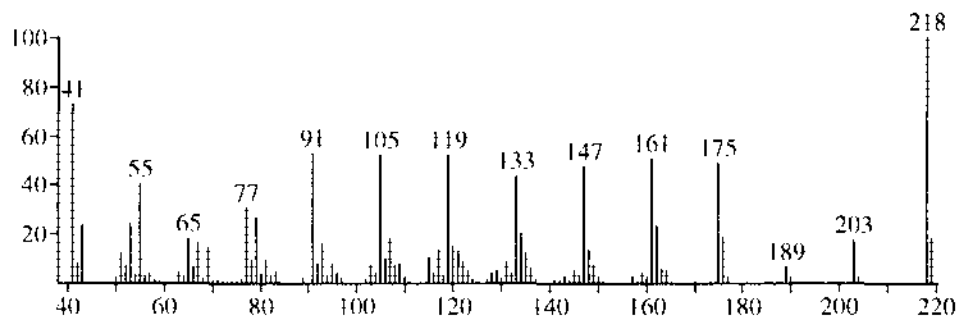
RT: 39.48 AI: 1774 KI: 1775 **Cyclocolorone <epi>**

CAS#: 1911-75-7 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 1804

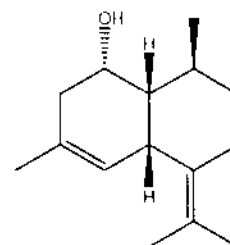
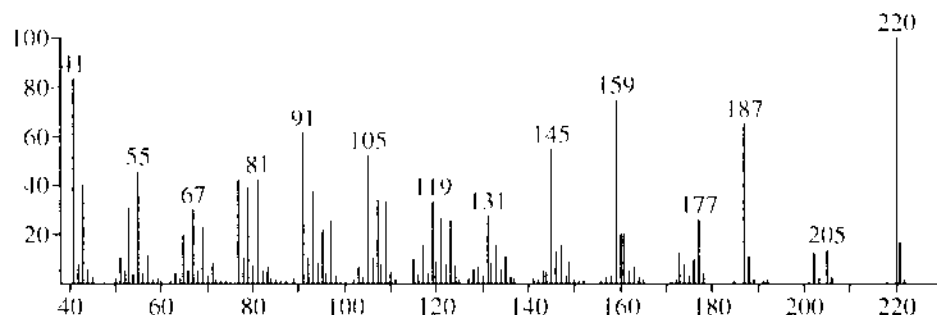
CN: 6H-cyclopropte)azulen-6-one, 1,1a,2,3,4,4a,5,7b-octahydro-1,1,4,7-tetramethyl-, (1aα,4a,4aα,7bα)-

Synonyms: epicyclocolorone

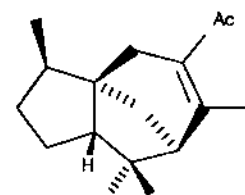
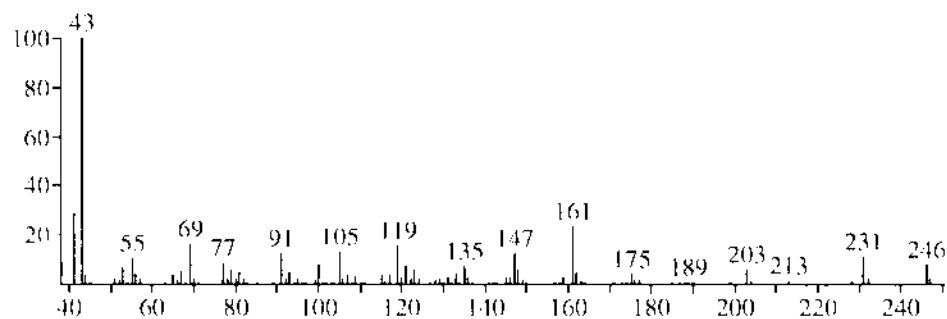
Source: ref. cpd. ex Ian Southwell



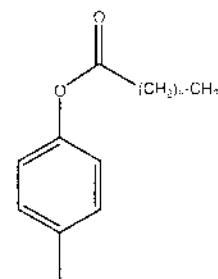
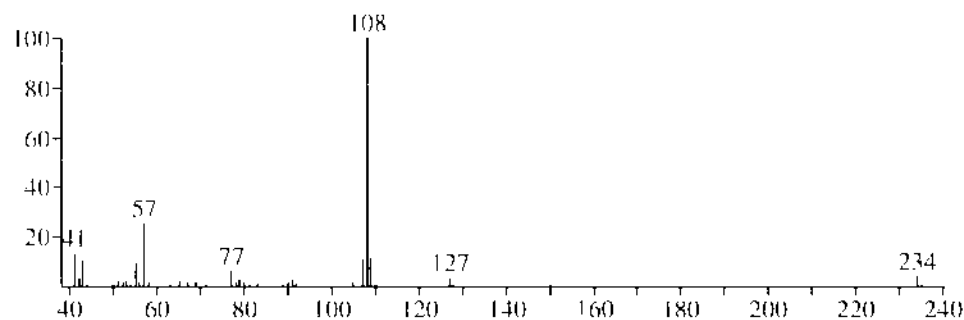
RT: 39.49 AI: 1775 KI: 1776 **Amorpha-4,7(11)-diene <2- α -hydroxy->**
 CAS#: 000-00-0 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 2195
 CN: not assigned
 Synonyms: none
 Source: Maque oil ex W. Koenig



RT: 39.50 AI: 1775 KI: 1776 **Cedryl methyl ketone**
 CAS#: 68039-35-0 MF: C₁₇H₂₆O FW: 246 MSD LIB#: 419
 CN: ethanone, 1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)-
 Synonyms: 4-acetyl- α -cedrene
 Source: ref. cpd. ex Jian-Qin Cu, Kunming



RT: 39.56 AI: 1777 KI: 1777 **Cresol octanoate <p->**
 CAS#: 59558-23-5 MF: C₁₅H₂₂O₂ FW: 234 MSD LIB#: 484
 CN: octanoic acid, 4-methylphenyl ester
 Synonyms: p-cresyl caprylate
 Source: Aldrich ex Art Tucker



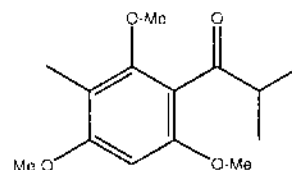
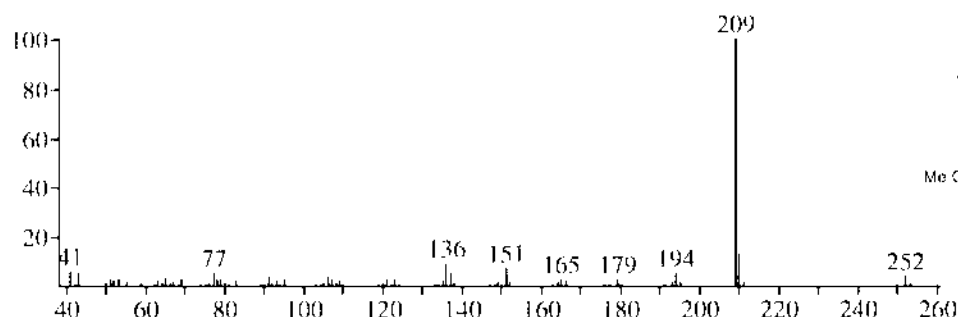
RT: 39.58 AI: 1777 KI: 1778 **Isobaeckeol methyl ether**

CAS#: 92301-90-1 MF: C₁₄H₂₀O₄ FW: 252 MSD LIB#: 2164

CN: propiophenone, 2',4',6'-trimethoxy-2',3'-dimethyl-

Synonyms: none

Source: *Eucalyptus minuta* oil ex JJ Brophy



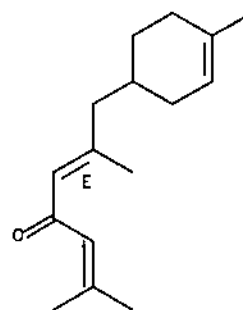
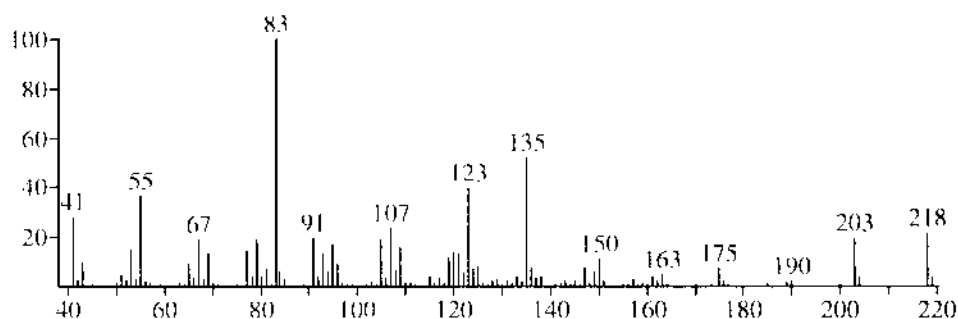
RT: 39.59 AI: 1777 KI: 1778 **Atlantone <(E)-α->**

CAS#: 108645-54-1 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 238

CN: 2,5-heptadien-4-one, 2-methyl-6-(4-methyl-3-cyclohexen-1-yl)-, (S-(E))-

Synonyms: none

Source: *Artemisia vestita* oil ex P. Weyerstahl



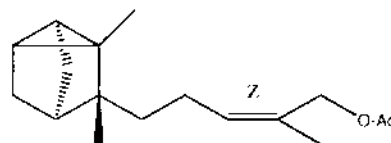
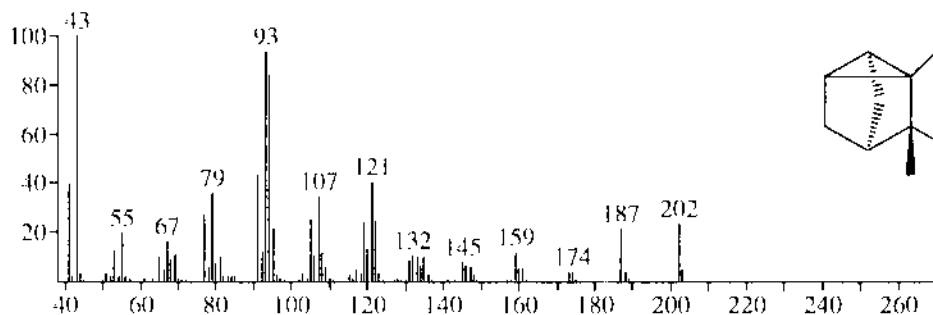
RT: 39.59 AI: 1777 KI: 1778 **Santalol acetate <(Z)-α->**

CAS#: 41414-75-9 MF: C₁₇H₂₆O₂ FW: 262 MSD LIB#: 1391

CN: 2-penten-1-ol 5-(2,3-dimethyltricyclo(2.2.1.0^{2,6})hept-3-yl)-2-methyl-, acetate, stereoisomer

Synonyms: none

Source: acetylation of sandalwood oil (5491)



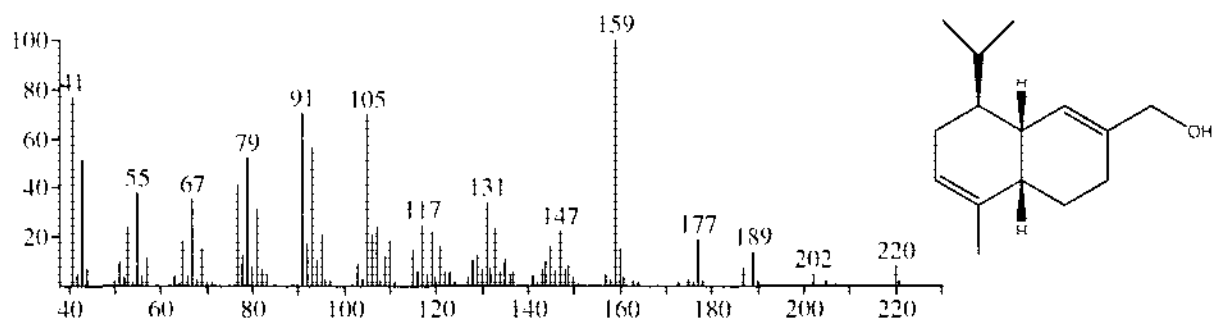
RT: 39.64 AI: 1779 KE: 1780 **Murolene <14-hydroxy- α ->**

CAS#: 135118-51-3 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 928

CN: 2-naphthalenemethanol, 3,4,4a,7,8,8a-hexahydro-5-methyl-8-(1-methylethyl)-, (4aS-(4a α ,8 α ,8a α))-

Synonyms: 4,9-muroladien-15-ol

Source: *Juniperus oxycedrus* wood oil ex AF Barrero



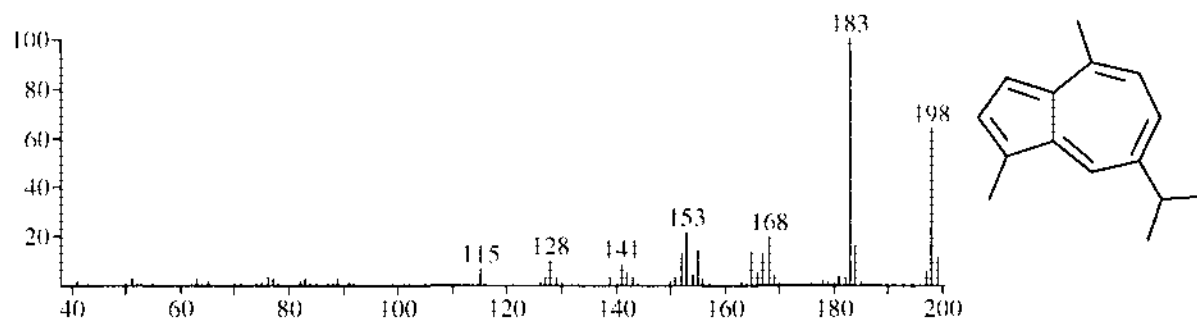
RT: 39.66 AI: 1779 KE: 1780 **Guaiazulene**

CAS#: 489-84-9 MF: C₁₅H₁₈ FW: 198 MSD LIB#: 757

CN: dimethyl-7-(1-methylethyl)azulene<1,4->

Synonyms: azulon; eucazulen; kessazulen; purazulen; euteazul; vetivazulen

Source: Fluka ex H. Hills



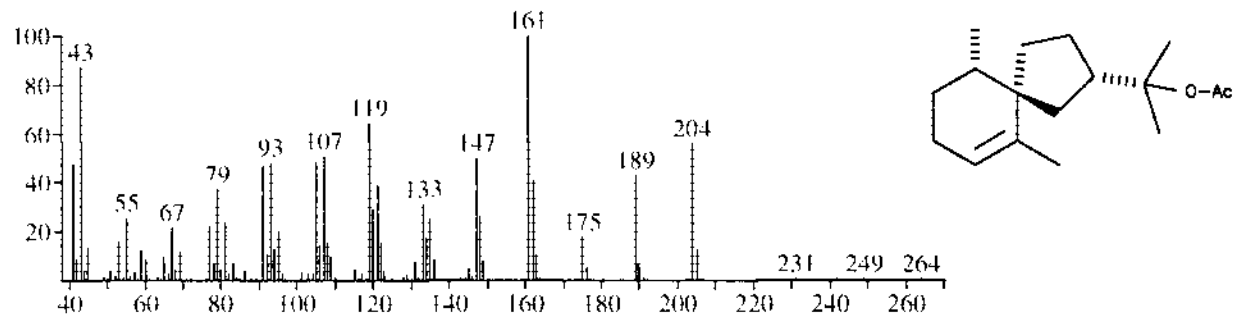
RT: 39.79 AI: 1783 KE: 1784 **Hinesol acetate**

CAS#: 88494-77-3 MF: C₁₇H₂₈O₂ FW: 264 MSD LIB#: 819

CN: spiro(4.5)dec-6-ene-2-methanol, $\alpha,\alpha,6,10$ -tetramethyl-,acetate, (2R-(2 α ,5 α ,S*))-

Synonyms: none

Source: acetylation of hinesol(6424)



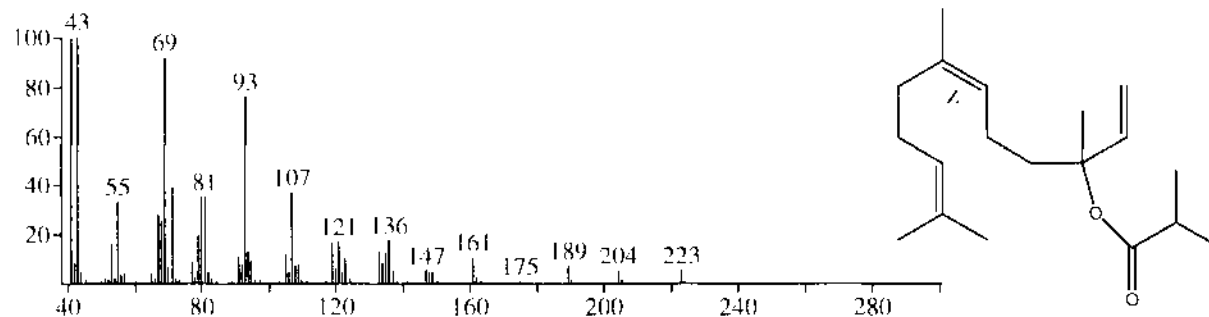
RT: 39.79 AI: 1783 KI: 1784 **Nerolidyl isobutyrate <(Z)->**

CAS#: 74646-27-8 MF: C₁₉H₃₂O₂ FW: 292 MSD LIB#: 2204

CN: propanoic acid, 2-methyl-, 1-ethenyl-1,5,9-trimethyl-4,8-decadienyl ester, (Z)-

Synonyms: none

Source: Bedoukian Res.



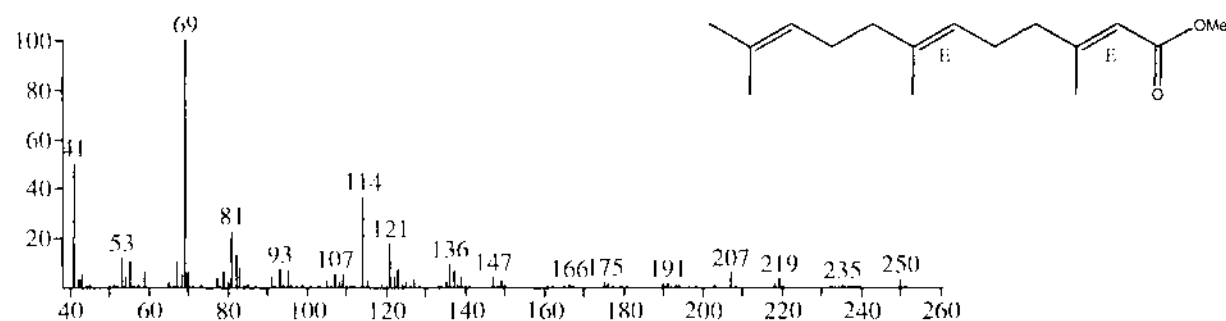
RT: 39.79 AI: 1783 KI: 1784 **Methyl farnesoate <(2E,6E)->**

CAS#: 3675-00-1 MF: C₁₆H₂₆O₂ FW: 250 MSD LIB#: 2002

CN: 2,6,10-dodecatrienoic acid, 3,7,11-trimethyl-, methyl ester, (2E,6E)-

Synonyms: methyl farnesoate, trans, trans-

Source: *Xanthostemon umbratus* oil ex J.J Brophy



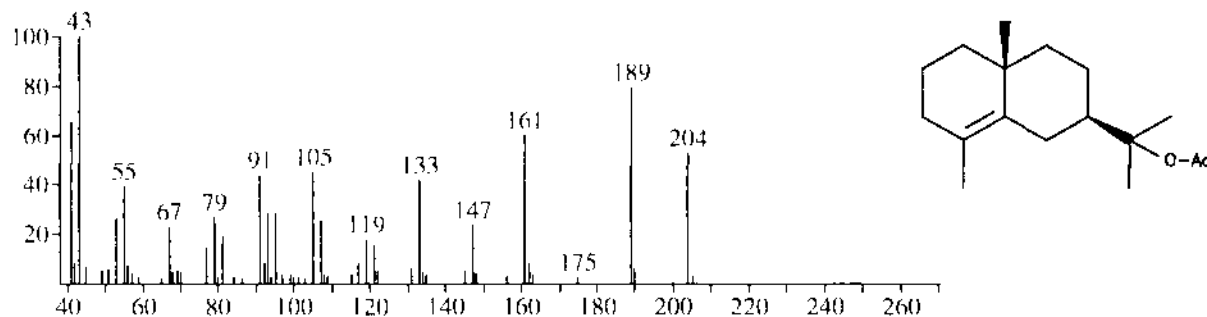
RT: 39.80 AI: 1783 KI: 1784 **Eudesmol acetate <γ->**

CAS#: 67996-61-6 MF: C₁₇H₂₈O₂ FW: 264 MSD LIB#: 695

CN: 2-naphthalenemethanol, 1,2,3,4,4a,5,6,7-octahydro-α,α,4a,8-tetramethyl-, acetate, (2R-cis-)

Synonyms: none

Source: acetylation of γ-eudesmol (6430)



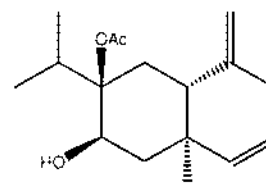
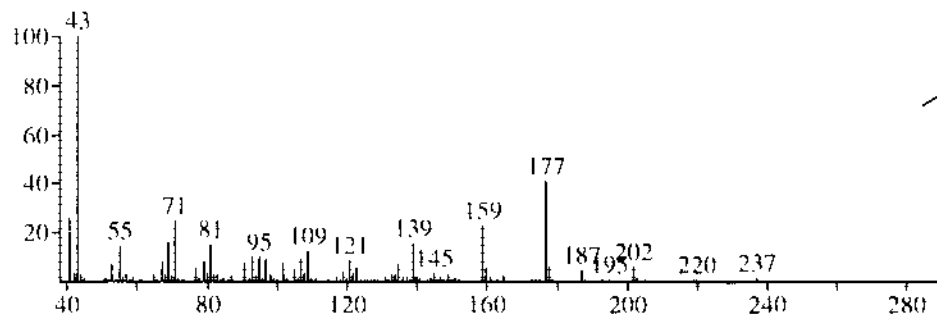
RT: 39.89 AI: 1786 KE: 1786 **Elema-1,3-dien-8-ol <7-acetoxy->**

CAS#: 394251-68-4 MF: C₁₇H₂₈O₃ FW: 280 MSD LIB#: 1893

CN: 1,2-cyclohexanediol,4-ethenyl-4-methyl-5-(1-methylethenyl)-1-(1-methylethyl)-, 1-acetate, (1R,2R,4R,5R)-

Synonyms: Acetoxyclema-1,3-dien-8-ol, 7-

Source: ref. cpd. ex W. Koenig



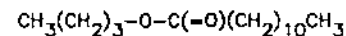
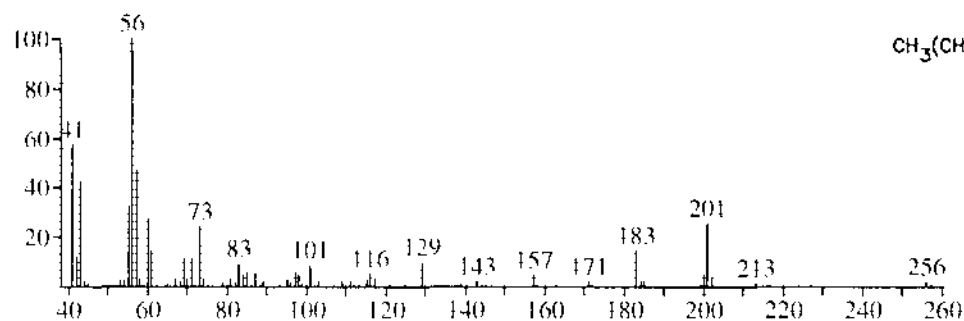
RT: 39.92 AI: 1786 KE: 1787 **Butyl dodecanoate**

CAS#: 106-18-3 MF: C₁₆H₃₂O₂ FW: 256 MSD LIB#: 328

CN: dodecanoic acid, butyl ester

Synonyms: dodecanoic acid, butyl ester; butyl laurate

Source: Pfaltz & Bauer ex Art Tucker



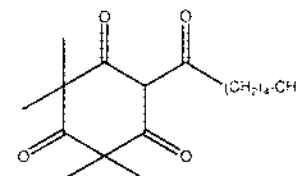
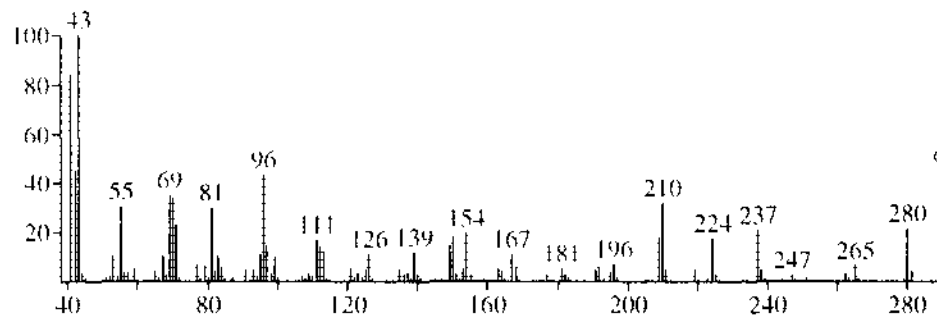
RT: 39.94 AI: 1787 KE: 1787 **Papuanone**

CAS#: 222849-22-1 MF: C₁₆H₂₄O₄ FW: 280 MSD LIB#: 691

CN: 1,3,5-cyclohexanetrione, 2,2,4,4-tetramethyl-6-(1-oxohexyl)-

Synonyms: none

Source: *Eucalyptus papuana* oil ex J. Brophy



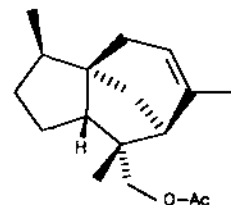
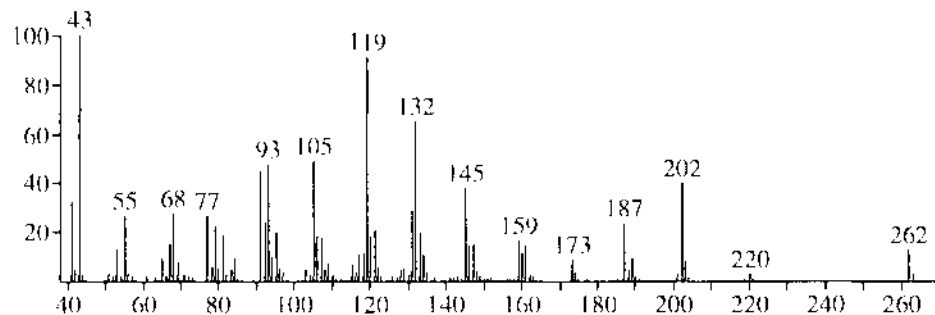
RT: 39.97 AI: 1788 KI: 1788 **Cedren-13-ol acetate <8>**

CAS#: 18319-41-0 MF: C₁₇H₂₆O₂ FW: 262 MSD LIB#: 945

CN: 1H-3a,7-methanoazulene-8-methanol, 2,3,4,7,8,8a-hexahydro-3,6,8-trimethyl-,acetate,
(3R-(3a,3aβ,7β,8β,8aα))-

Synonyms: 3-cedren-12-ol, acetate

Source: *Juniperus recurva* Bt Ac Fract ex J Oda, Agric. Biol. Chem. 41:201(1977)



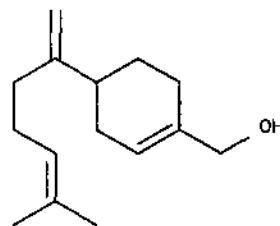
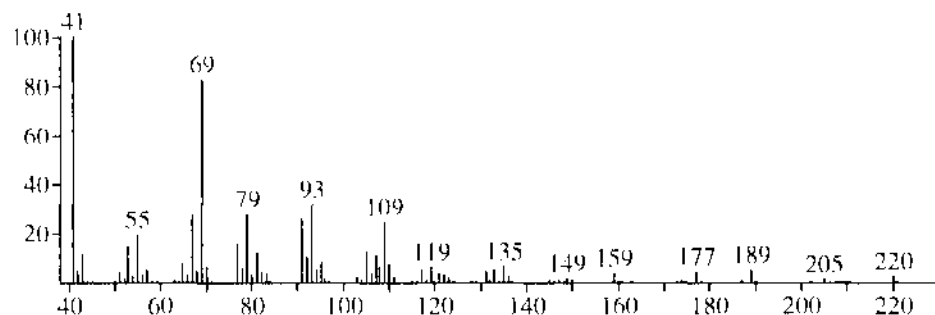
RT: 40.01 AI: 1789 KI: 1789 **Bisabolenol <β>**

CAS#: 147126-90-7 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 1132

CN: 1-cyclohexene-1-methanol, 4-(5-methyl-1-methylene-4-hexenyl)-,(S)-

Synonyms: 2,7(14),10-bisabolatrien-15-ol; β-bisabolen-15-ol

Source: *Neocallotropis pancheri* ex P. Raharivelomanana



RT: 40.02 AI: 1789 KI: 1790 **Octadecene <1>**

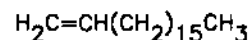
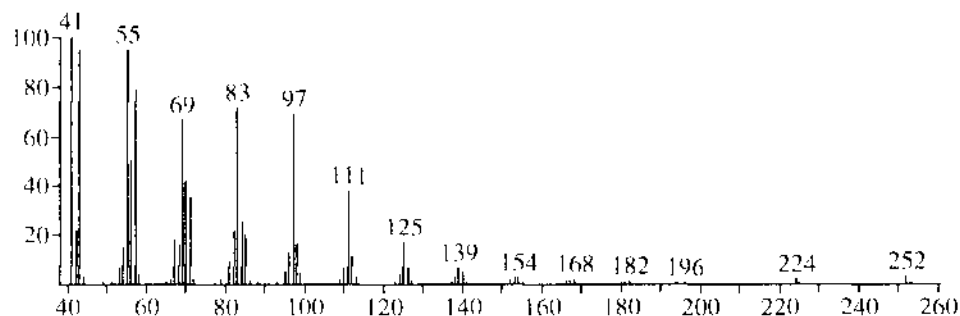
CAS#: 112-88-9 MF: C₁₈H₃₆ FW: 252 MSD LIB#: 1216

CN: octadecene (1-)

Synonyms: none

Source: Olefins mix Aldrich & Sigma Chem.: 10.60% *Viola odorata* (leaf),

Phytochem. 31:571(1992); 0.70% *Hedychium coronarium*; 0.30% *Vitex agnus-castus*



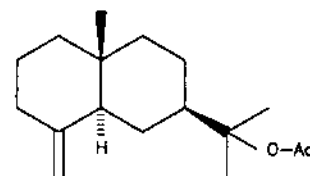
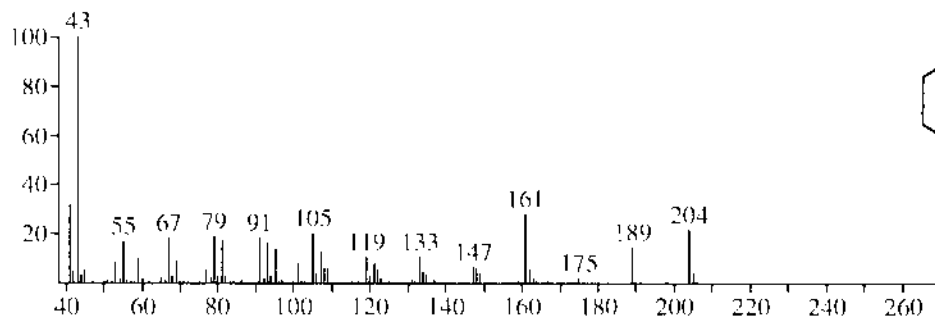
RT: 40.11 AI: 1792 KI: 1792 **Eudesmol acetate <β>**

CAS#: 55868-98-9 MF: C₁₇H₂₈O₂ FW: 264 MSD LIB#: 693

CN: 2 naphthalenemethanol, decahydro- $\alpha,\alpha,4\alpha$ -trimethyl-8-methylene-, acetate, (2S-(2 $\alpha,4\alpha,8\alpha\beta$))-

Synonyms: none

Source: acetylation of β -eudesmol (6430)



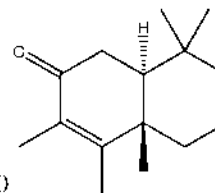
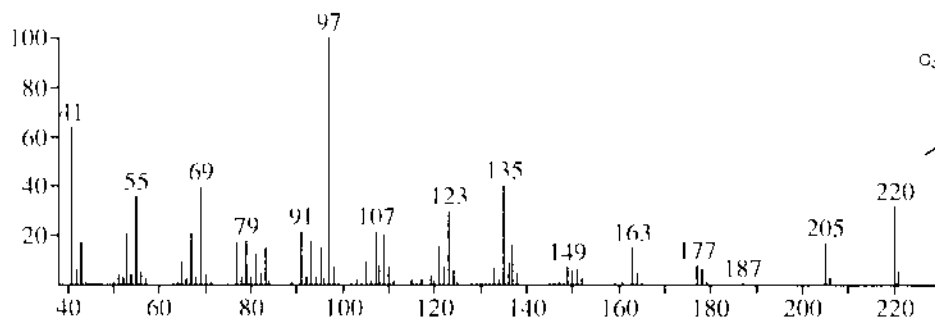
RT: 40.12 AI: 1792 KI: 1792 **Drimenone**

CAS#: 55733-01-2 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 632

CN: 2(1H)-naphthalene, 4a,5,6,7,8,8a-hexahydro-3,4,4a,8,8-pentamethyl-, (4aS-trans)-

Synonyms: drim-8-en-7-one

Source: ref. cpd., P. Weyerstahl



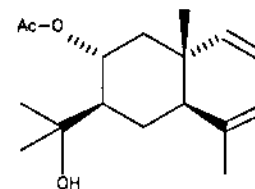
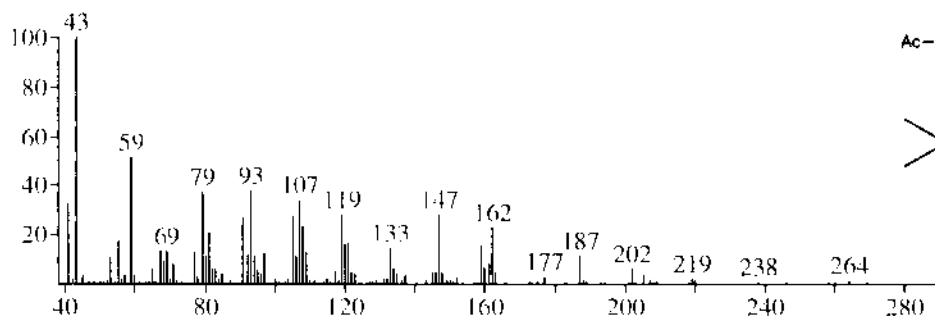
RT: 40.14 AI: 1792 KI: 1793 **Acetoxylemol <8- α >**

CAS#: 41370-57-4 MF: C₁₇H₂₈O₃ FW: 280 MSD LIB#: 933

CN: cyclohexanemethanol, 2-(acetyloxy)-4-ethenyl- $\alpha,\alpha,4$ -trimethyl-5-(1-methylethenyl)-, (1S-(1 $\alpha,2\beta,4\beta,5\alpha$))-

Synonyms: none

Source: *Juniperus recurva* leaf oil ex RK Thappa



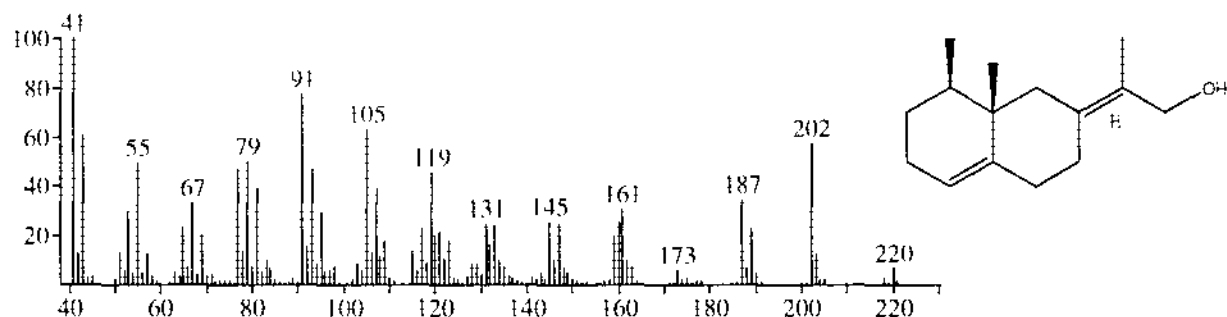
RT: 40.15 AI: 1793 KI: 1793 **Isovalencenol <(E)->**

CAS#: 22387-74-2 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 2173

CN: 1-propanol, 2-((8R,8aS)-3,4,6,7,8,8a-hexahydro-8,8a-dimethyl-2(1H)-naphthalenylidene)-, (2E)-

Synonyms: Eremophila-1(10),7(11)-dien-12-ol, 4βH,5α-

Source: Vetiver oil, Haiti, Texarome Inc.



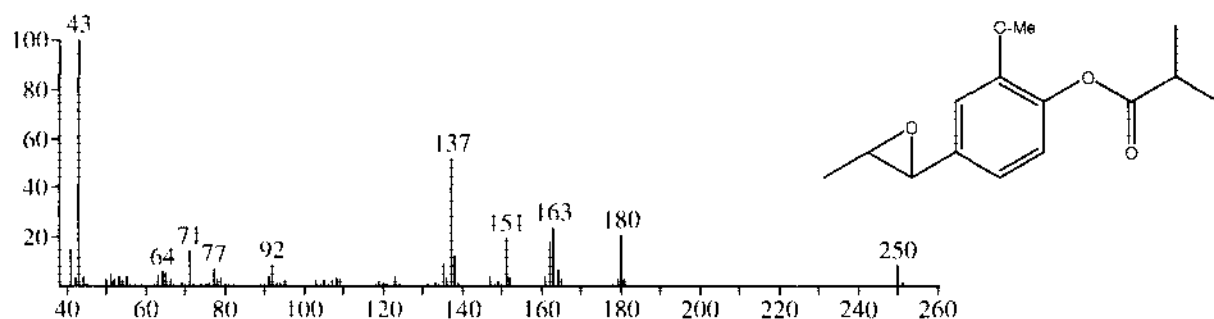
RT: 40.16 AI: 1793 KI: 1793 **Epoxy-pseudoisoeugenyl isobutyrate**

CAS#: 137591-61-8 MF: C₁₄H₁₈O₄ FW: 250 MSD LIB#: 1822

CN: propanoic acid, 2-methyl-, 2-methoxy-4-(3-methyloxiranyl)phenyl ester

Synonyms: none

Source: *Pimpinella peregrina* root oil ex K-H Kubeczka



RT: 40.20 AI: 1794 KI: 1794 **Bergamotol acetate <(Z)-α-trans->**

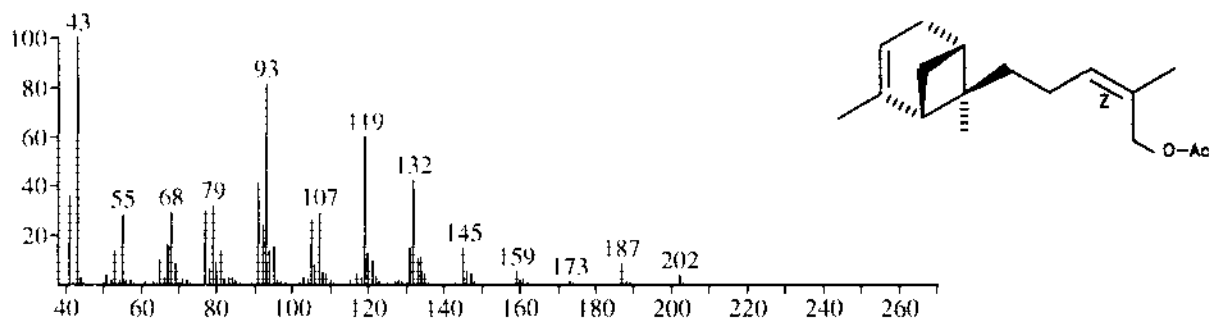
CAS#: 87978-33-4 MF: C₁₇H₂₆O₂ FW: 262 MSD LIB#: 1393

CN: 2-penten-1-ol, 5-(2,6-dimethylbicyclo(3.1.1)hept-2-en-6-yl)-2-methyl-, acetate,

(1S-(1α,5α,6α(Z))-

Synonyms: none

Source: Sandalwood oil ex Firmenich



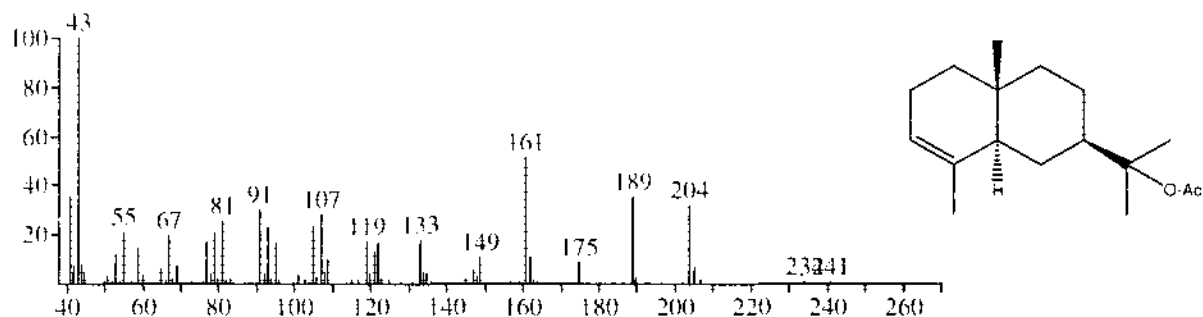
RT: 40.21 AI: 1794 KE: 1795 **Eudesmol acetate <α>**

CAS#: 67996-62-7 MF: C₁₇H₂₈O₂ FW: 264 MSD LIB#: 694

CN: 2-naphthalenemethanol, 1,2,3,4,4a,5,6,8a-octahydro-α,α,4a,8-tetramethyl-, acetate,
(2R-(2α,4aa,8aβ))-

Synonyms: none

Source: acetylation α-eudesmol (6430)



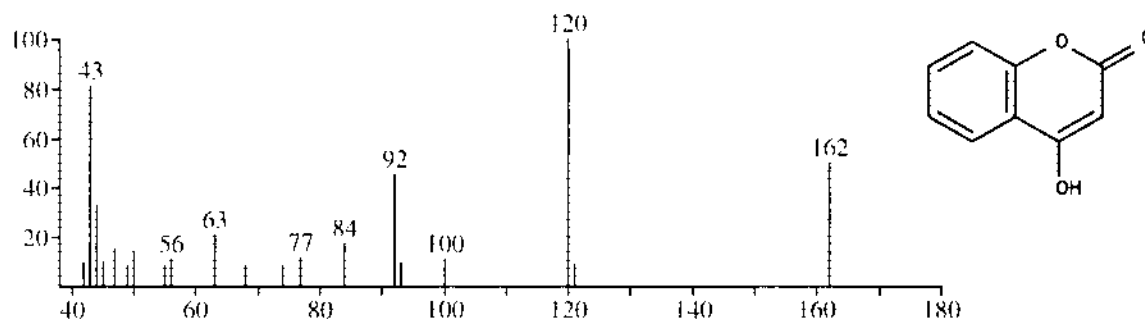
RT: 40.22 AI: 1795 KE: 1795 **Coumarin <4-hydroxy>**

CAS#: 1076-38-6 MF: C₉H₆O₃ FW: 162 MSD LIB#: 474

CN: 2H-1-benzopyran-2-one, 4-hydroxy-

Synonyms: 4-coumarinol; benzotetronic acid

Source: ref. cpd. ex E. von Rudloff



RT: 40.25 AI: 1795 KE: 1796 **Ethyl tetradecanoate**

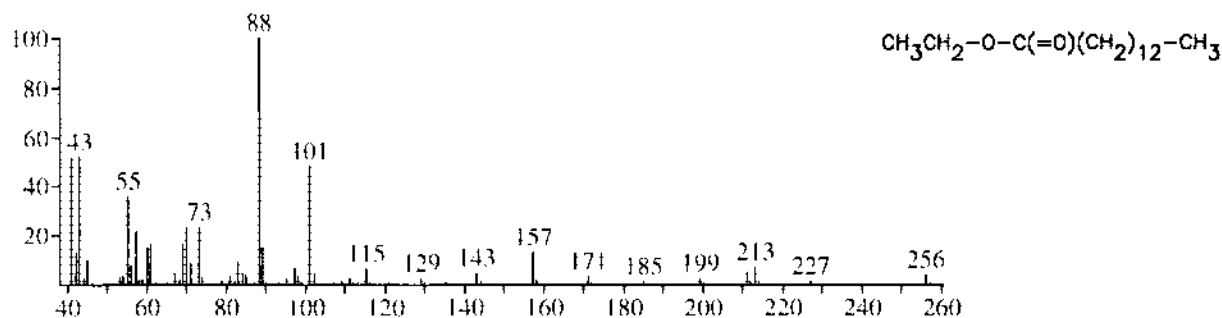
CAS#: 124-06-1 MF: C₁₆H₃₂O₂ FW: 256 MSD LIB#: 679

CN: tetradecanoic acid, ethyl ester

Synonyms: ethyl myristate

Source: Aldrich Chem.; 1.97% *Pistacia lentiscus* (leaf), JEOR 4:663(1992);

1.91% *Spartium junceum* (absolute); 1.43% *Dendranthema vestitum* (flower)



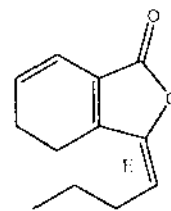
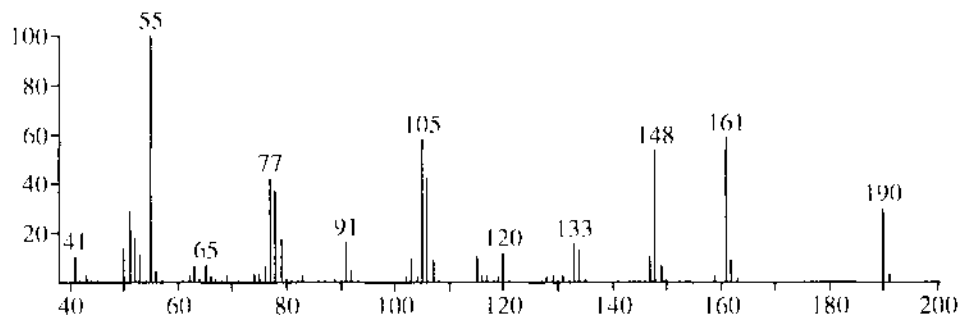
RT: 40.28 AE: 1796 KE: 1796 **Ligustilide <(E)->**

CAS#: 81944-08-3 MF: C₁₂H₁₄O₂ FW: 190 MSD LIB#: 1037

CN: 1(3H)-isobenzofuranone, 3-butyldiene-4,5-dihydro-(E)-

Synonyms: phthalide, trans-3-butyldiene-4,5-dihydro-

Source: Lovage root oil ex F. Perineau



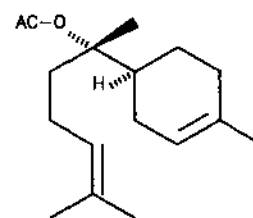
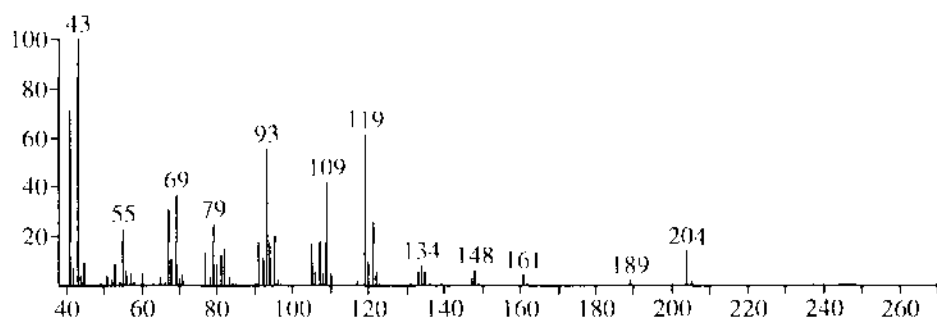
RT: 40.33 AE: 1798 KE: 1798 **Bisabolol acetate <α->**

CAS#: 25428-44-8 MF: C₁₇H₂₈O₂ FW: 264 MSD LIB#: 301

CN: 5-hepten-2-ol, 6-methyl-2-(4-methyl-3-cyclohexen-1-yl-, acetate

Synonyms: none

Source: acetylation of α-bisabolol(6015)



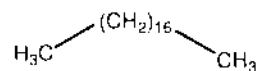
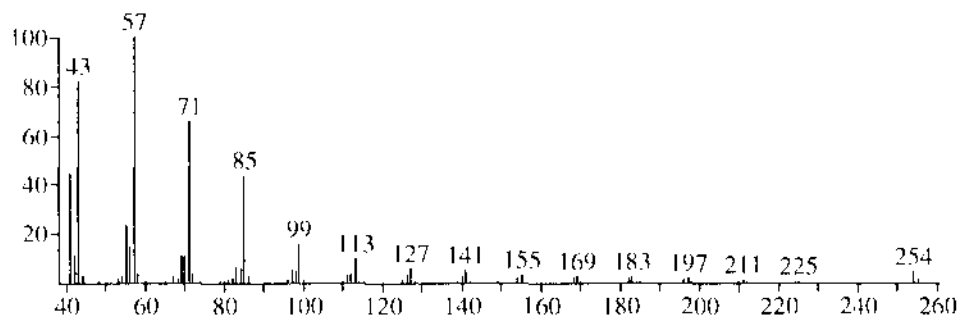
RT: 40.40 AE: 1800 KE: 1800 **Octadecane <n->**

CAS#: 593-45-3 MF: C₁₈H₃₈ FW: 254 MSD LIB#: 98

CN: octadecane

Synonyms: none

Source: ref. epd. ex E. von Rudloff



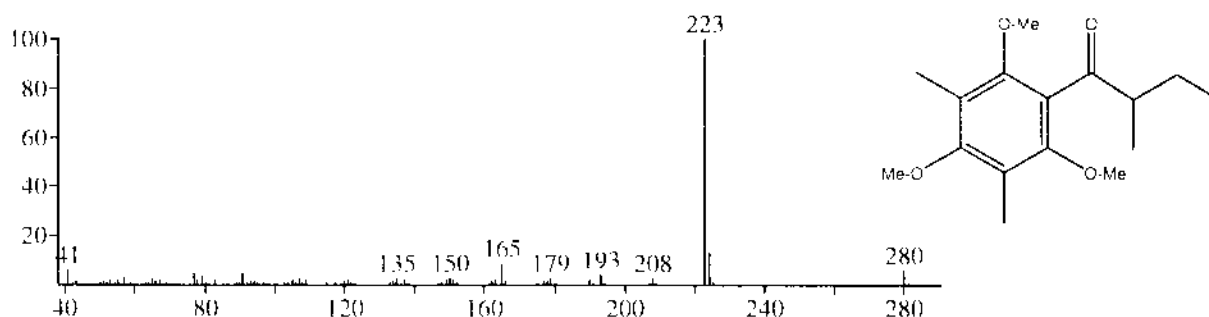
RT: 40.42 AI: 1800 KI: 1800 **Isotorquatone**

CAS#: 245063-60-9 MF: C₁₆H₂₄O₄ FW: 280 MSD LIB#: 1680

CN: 1-butanone, 2-methyl-1-(2,4,6-trimethoxy-3,5-dimethylphenyl)-

Synonyms: none

Source: *Eucalyptus minuta* oil ex JJ Brophy



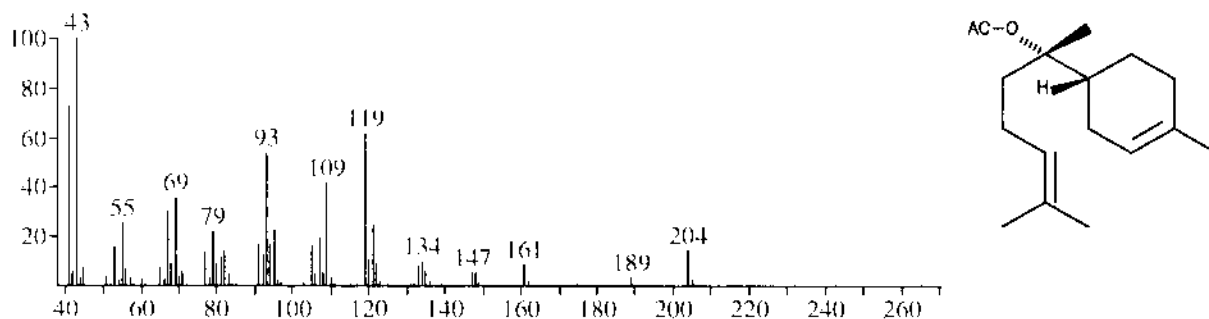
RT: 40.48 AI: 1802 KI: 1802 **Bisabolol acetate <epi- α >**

CAS#: 256332-39-5 MF: C₁₇H₂₈O₂ FW: 264 MSD LIB#: 303

CN: 3-cyclohexene-1-methanol, α ,4-dimethyl- α -(4-methyl-3-pentenyl)-, acetate, (α R,1S)-

Synonyms: none

Source: acetylation of bisabolol, epi- α -(5787)



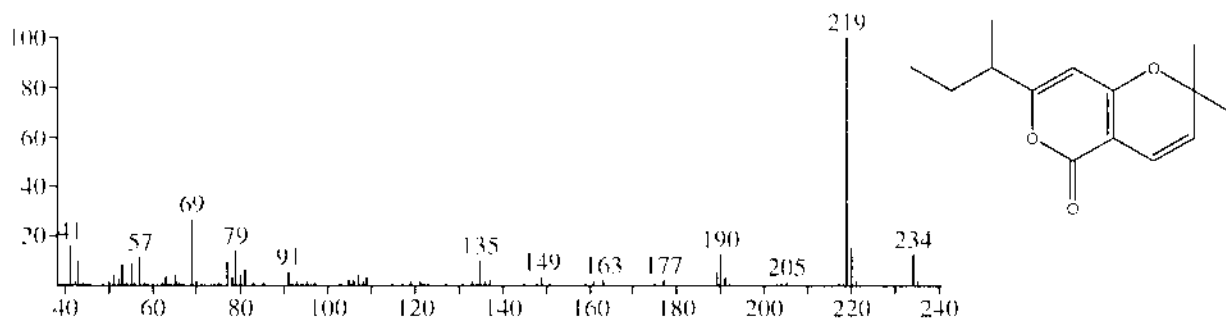
RT: 40.49 AI: 1802 KI: 1802 **Pyran-5-one <2,2-dimethyl-7-sec-butyl-2H,5H,pyrano [4,3-b]>**

CAS#: 174844-17-8 MF: C₁₄H₁₈O₃ FW: 234 MSD LIB#: 836

CN: 2H, 5H-pyrano(4,3-b)pyran-5-one, 2,2-dimethyl-7-(1-methylpropyl)-

Synonyms: none

Source: *Hypericum perforatum* oil ex P. Weyerstahl



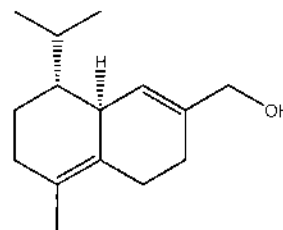
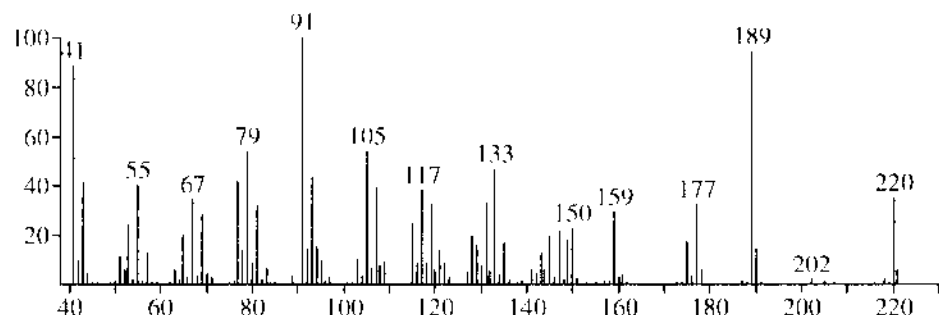
RT: 40.52 AI: 1803 KI: 1803 **Cadinene <14-hydroxy-δ>**

CAS#: 135118-52-4 MF: C₁₅H₂₄O FW: 220 MSD LIB#: 929

CN: 2-naphthalenemethanol, 3,4,6,7,8,8a-hexahydro-5-methyl-8-(1-methylethyl)-, (8R-cis)-

Synonyms: 1(10),4-cadinadien-15-ol

Source: *Juniperus oxycedrus* wood oil ex AF Barrero



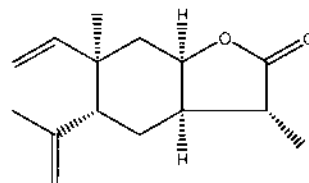
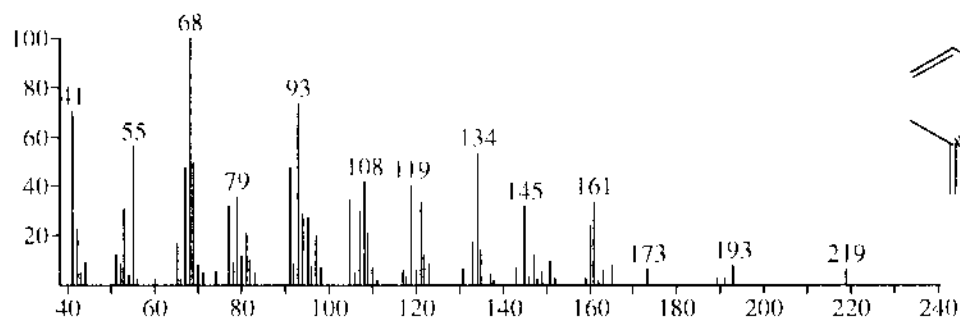
RT: 40.52 AI: 1803 KI: 1803 **Callitrin**

CAS#: 66964-63-4 MF: C₁₅H₂₂O₂ FW: 234 MSD LIB#: 1838

CN: 2(3H)-benzofuranone, 6-ethenylhexahydro-3,6-dimethyl-5-(1-methylethenyl)-, (3R,3aR,5R,6R,7aR)-

Synonyms: none

Source: *Callitris columinaris* wood oil ex Ian Southwell



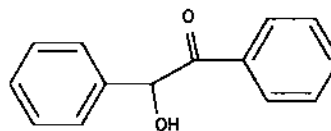
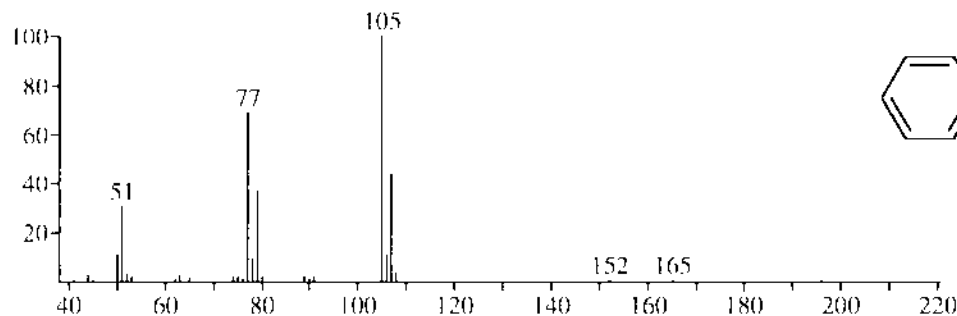
RT: 40.53 AI: 1803 KI: 1803 **Benzoin**

CAS#: 579-44-2 MF: C₁₄H₁₂O₂ FW: 212 MSD LIB#: 283

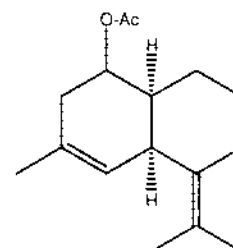
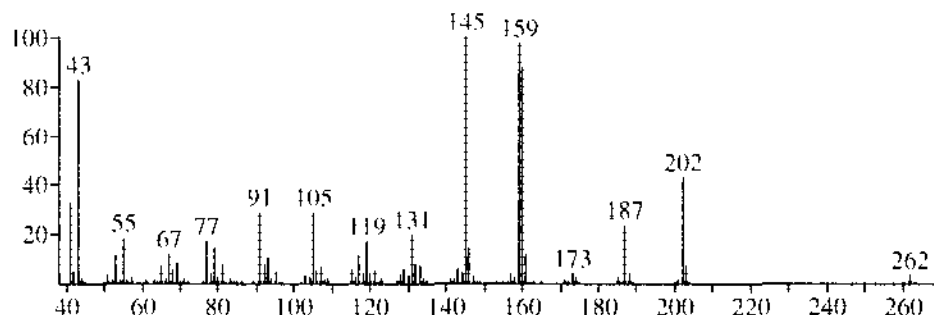
CN: ethanone, 2-hydroxy-1,2-diphenyl-

Synonyms: none

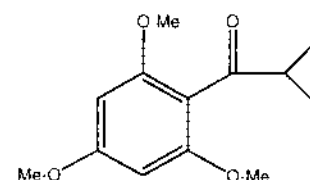
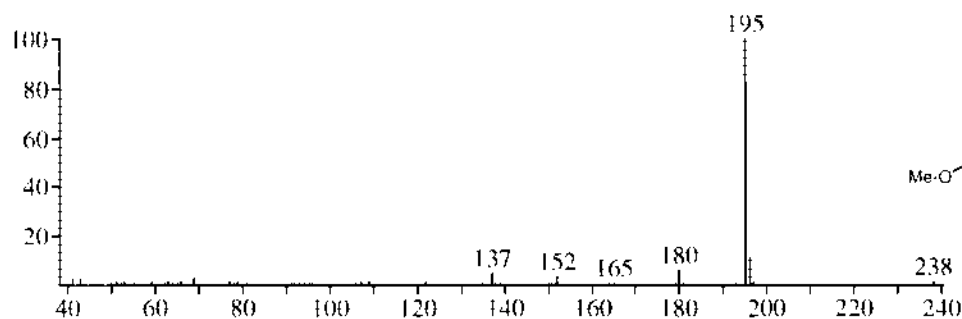
Source: Aldrich Chem.



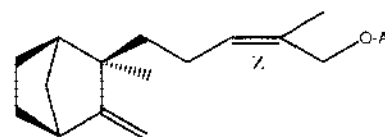
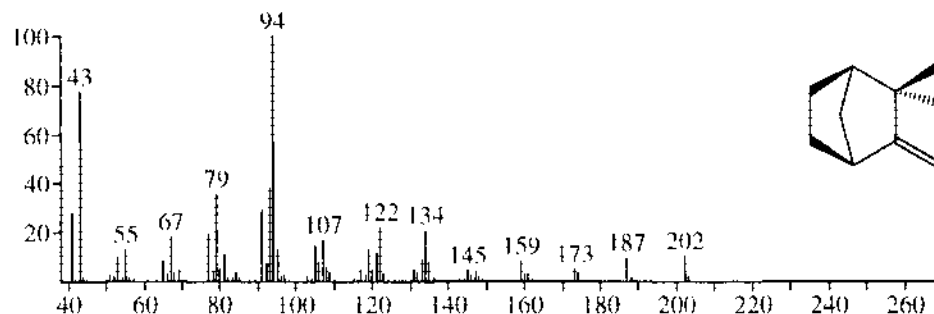
RT: 40.59 AI: 1805 KE: 1805 **Amorpha-4,7(11)-diene <2- α -acetoxy->**
 CAS#: 000-00-0 MF: C₁₇H₂₆O₂ FW: 262 MSD LIB#: 1900
 CN: not assigned
 Synonyms: none
 Source: Maque oil ex W. Koenig



RT: 40.60 AI: 1805 KE: 1805 **Conglomerone**
 CAS#: 480-25-1 MF: C₁₃H₁₈O₄ FW: 238 MSD LIB#: 1844
 CN: 1-propanone,2-methyl-1-(2,4,6-trimethoxyphenyl)-
 Synonyms: none
 Source: *Eucalyptus conglomerata* ex JJ Brophy



RT: 40.60 AI: 1805 KE: 1805 **Santalol acetate <(Z)-epi- β ->**
 CAS#: 75992-90-4 MF: C₁₇H₂₆O₂ FW: 262 MSD LIB#: 1394
 CN: 2-penten-1-ol, 2-methyl-5-(2-methyl-3-methylenebicyclo(2.2.1)hept-2-yl)-, acetate,
 (1 α ,2 β (Z),4 α)-
 Synonyms: none
 Source: acetylation of Sandalwood oil (5491)



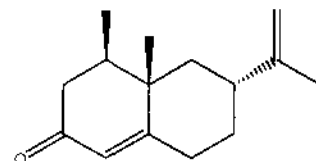
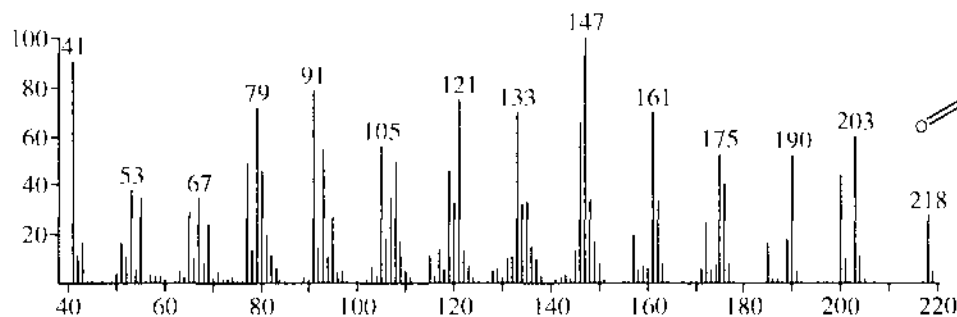
RT: 40.62 AI: 1806 KI: 1806 **Nootkatone**

CAS#: 4674-50-4 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 749

CN: 2(3H)-naphthalenone, 4,4a,5,6,7,8-hexahydro-4,4a-dimethyl-6-(1-methylethenyl)-, (4R-4a,4a,6β)-

Synonyms: 1(10),11-eremophiladien-2-one

Source: distillation of grapefruit peel, RP Adams #6088; 10.80% *Amomum muricarpum*, p. 333, in: Flav. & Frag.: A World Persp., Lawrence, et al. (eds.), Proc. 10th Intl. Cong. of Ess. Oils, Elsevier, Amsterdam(1988); 0.84% *Citrus paradisi*; 0.74% *Citrus sinensis*



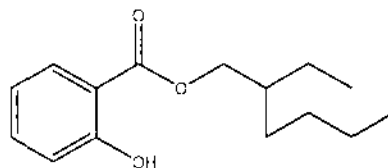
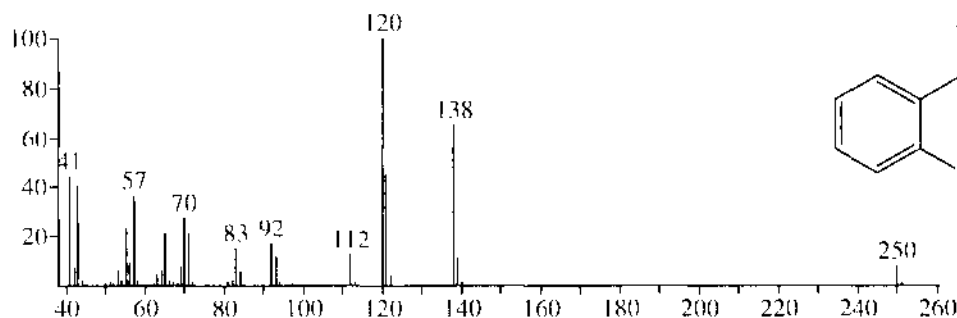
RT: 40.65 AI: 1807 KI: 1807 **Salicylate <2-ethylhexyl>**

CAS#: 118-60-5 MF: C₁₅H₂₂O₃ FW: 250 MSD LIB#: 1371

CN: benzoic acid, 2-hydroxy-, 2-ethylhexyl ester

Synonyms: sunarome O; octyl salicylate

Source: Aldrich Chem.



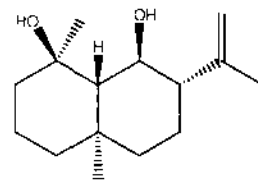
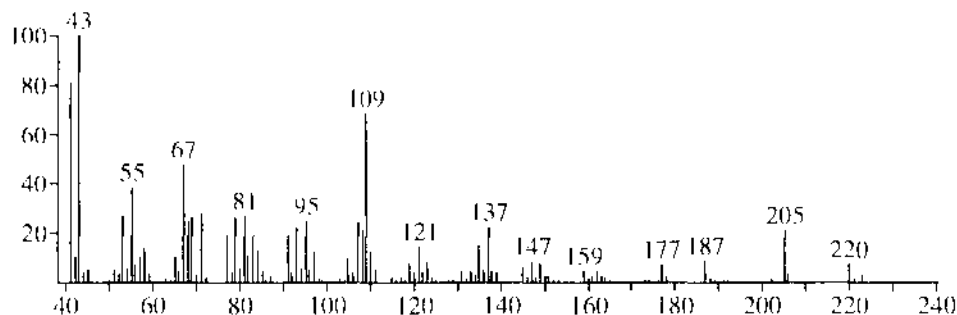
RT: 40.70 AI: 1808 KI: 1808 **Eudesm-11-en-4-α, 6-α-diol**

CAS#: 405554-95-2 MF: C₁₅H₂₆O₂ FW: 238 MSD LIB#: 2161

CN: 1,8-naphthalenediol, decahydro-1,4a-dimethyl-7-(1-methylethenyl)-, (1R,4aR,7S,8S,8aS)-

Synonyms: none

Source: *Chenopodium botrys* ex Vasu Dev



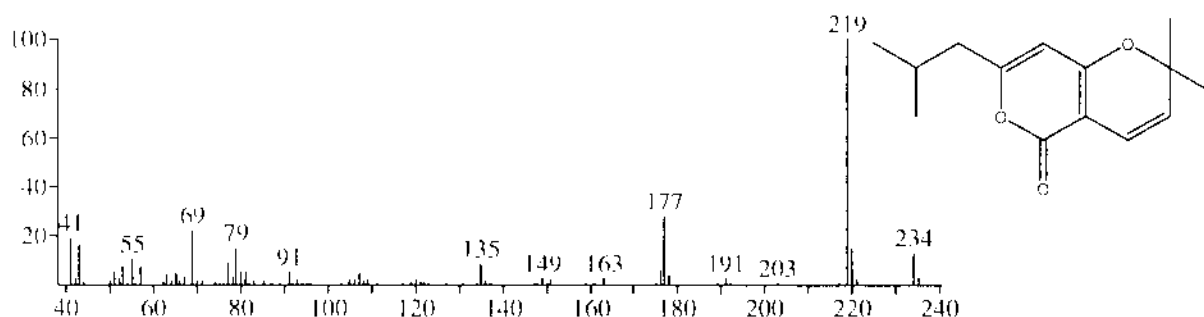
RT: 40.74 AI: 1809 KI: 1810 **Pyran-5-one <2,2-dimethyl-7-isobutyl-2H,5H-pyrano[4,3-b]->**

CAS#: 174844-18-9 MF: C₁₄H₁₈O₃ FW: 234 MSD LIB#: 837

CN: 2h,5H pyrano (4,3-b)pyran-5-one, 2,2-dimethyl-7-(2-methylpropyl)-

Synonyms: none

Source: *Hypericum perforatum* oil ex P. Weyerstahl



RT: 40.80 AI: 1811 KI: 1811 **Chenopodiol <β>**

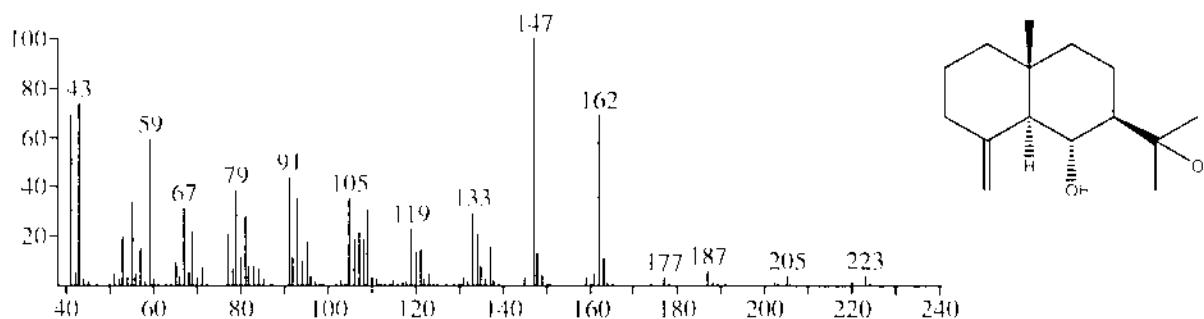
CAS#: 68127-21-9 MF: C₁₅H₂₆O₂ FW: 238 MSD LIB#: 435

CN: 2-naphthalenemethanol, decahydro-1-hydroxy-α,α,4a-trimethyl-8-methylene-,

(1R,2R,4aR,8aS)-

Synonyms: none

Source: ref. cpd. ex Vasu Dev



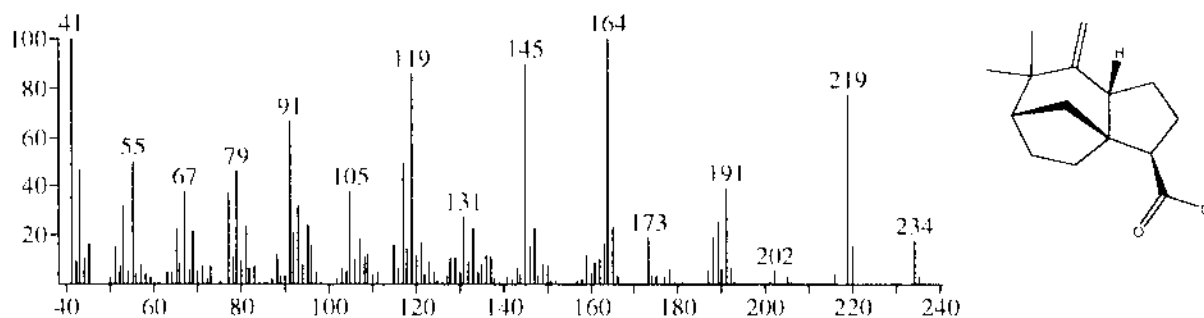
RT: 40.80 AI: 1811 KI: 1811 **Vetivonic acid**

CAS#: 16203-25-1 MF: C₁₅H₂₂O₂ FW: 234 MSD LIB#: 1568

CN: 1H-3a,6-methanoazulene-3-carboxylic acid, octahydro-7,7-dimethyl-8-methylene-, (3S,3aR,6R,8aS)-

Synonyms: khusenic acid, zizanoic acid

Source: vetiver cv. SLA, Portugal; 1.00% *Vetiveria zizanoides*, Rivista Ital EPPOS 54:315 (1972)



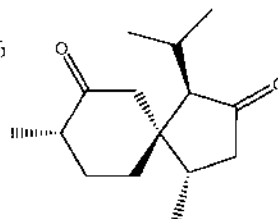
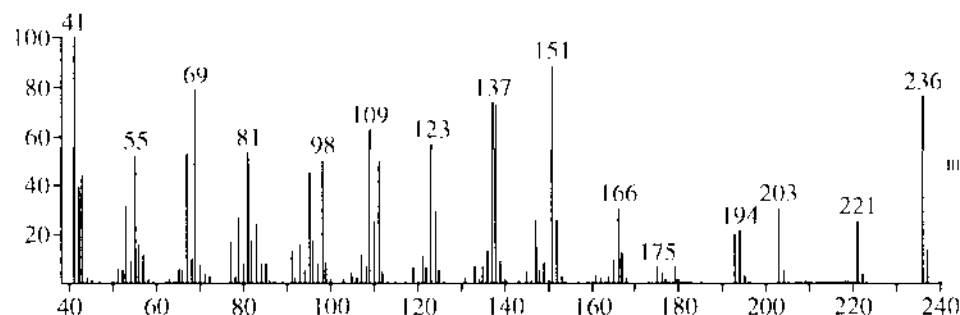
RT: 40.83 AL: 1812 KI: 1811 **Acorone <iso>**

CAS#: 6168-64-5 MF: C₁₅H₂₄O₂ FW: 236 MSD LIB#: 20

CN: spiro(4.5)decane-2,7-dione, 4,8-dimethyl-1-(1-methylethyl)-(1R,4S,5S,8S)-

Synonyms: none

Source: Alfred Bader Chem. ex E. von Rudloff



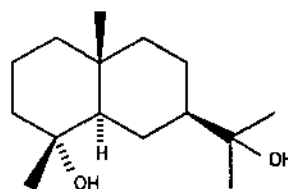
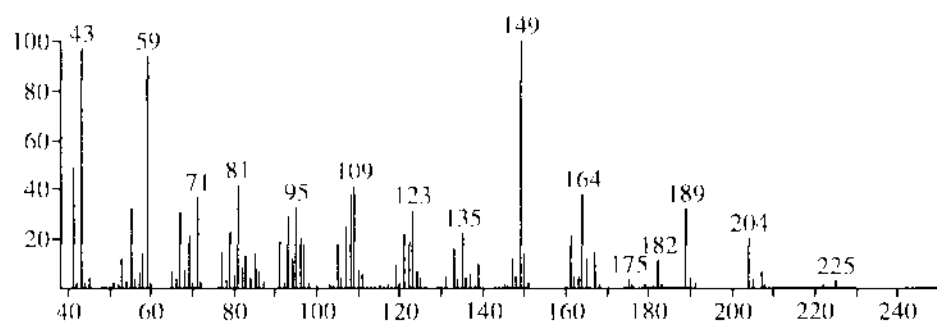
RT: 40.86 AL: 1813 KI: 1813 **Cryptomeridiol**

CAS#: 4666-84-6 MF: C₁₅H₂₈O₂ FW: 240 MSD LIB#: 499

CN: 2-naphthalenemethanol, decahydro-8-hydroxy- $\alpha,\alpha,4\alpha,8$ -tetramethyl-, (2R-(2 $\alpha,4\alpha,8\beta,8\alpha\beta$))-

Synonyms: proximadiol; selina-4,7 diol; selina-4,7-diol; 4 α -(1)selinadiol

Source: Alfred Bader Co. ex E. von Rudloff



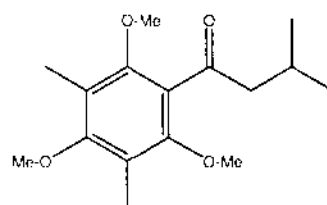
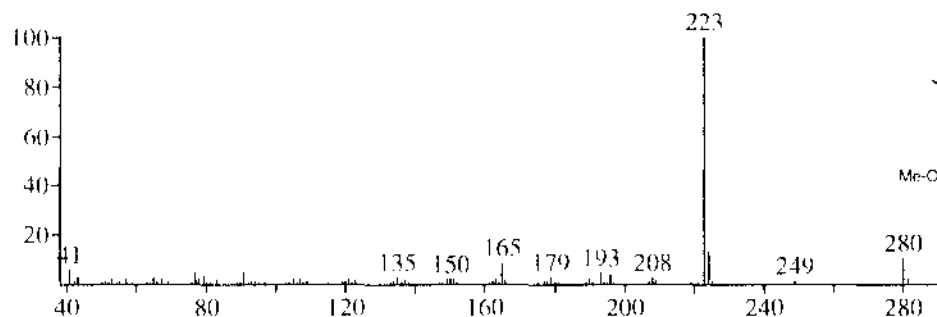
RT: 40.94 AL: 1815 KI: 1815 **Torquatone**

CAS#: 3567-96-2 MF: C₁₆H₂₄O₄ FW: 280 MSD LIB#: 1681

CN: 1-butanone, 3-methyl-1-(2,4,6-trimethoxy-3,5-dimethylphenyl)-

Synonyms: none

Source: *Eucalyptus minuta* oil ex JJ Brophy



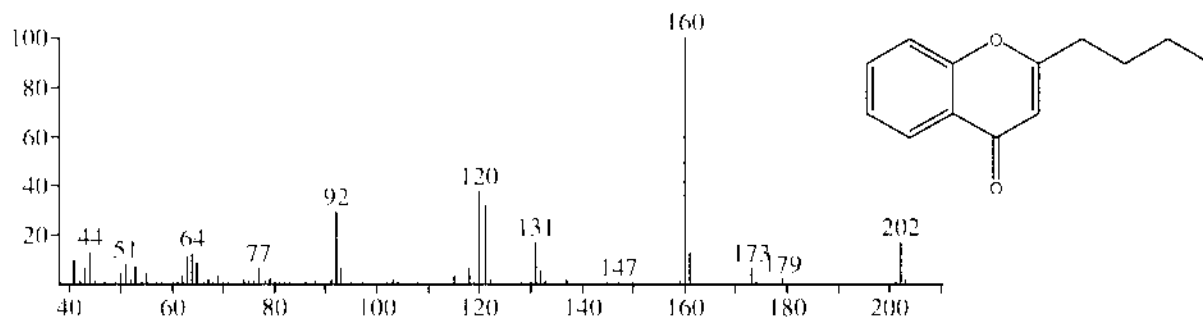
RT: 40.97 AI: 1816 KI: 1816 **Butyl chromone <2>-**

CAS#: 57262-51-8 MF: C₁₃H₁₄O₂ FW: 202 MSD LIB#: 124

CN: 4H-1-benzopyran-4-one, 2-butyl-

Synonyms: none

Source: *Anomyrtus meli* ex P. Weyerstahl



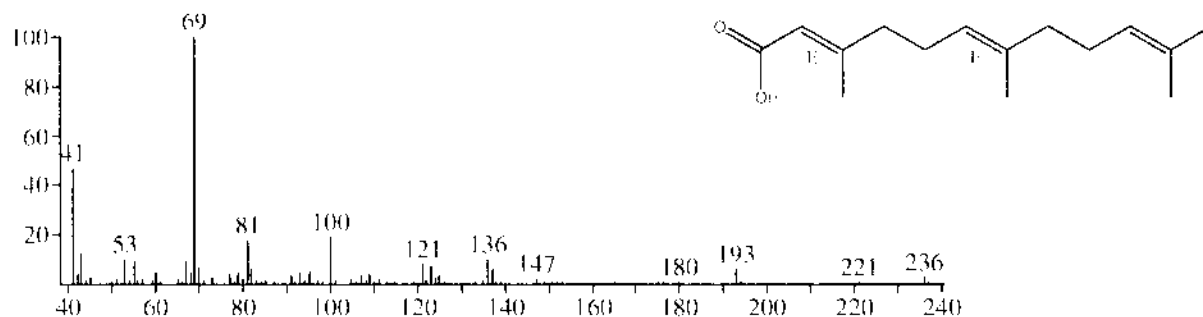
RT: 40.98 AI: 1816 KI: 1817 **Farnesoic acid <(2E,6E)>-**

CAS#: 462-11-3 MF: C₁₅H₂₄O₂ FW: 236 MSD LIB#: 2003

CN: 2,6,10-dodecatricienoic acid, 3,7,11-trimethyl-, (2E,6E)-

Synonyms: farnesenic acid, trans, trans-

Source: *Xanthostemon umbrosus* ex JJ Brophy



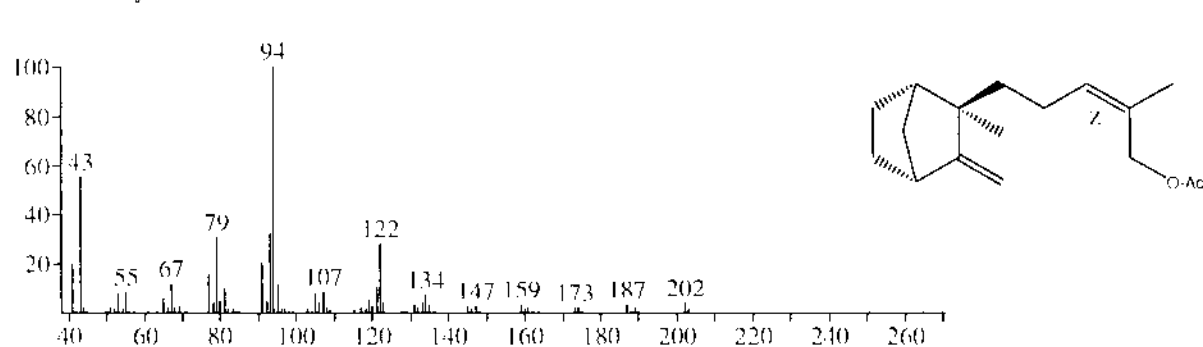
RT: 41.05 AI: 1818 KI: 1819 **Santalol acetate <(Z)-β>-**

CAS#: 77-43-0 MF: C₁₇H₂₆O₂ FW: 262 MSD LIB#: 1392

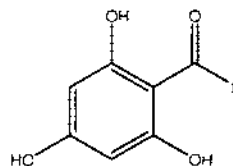
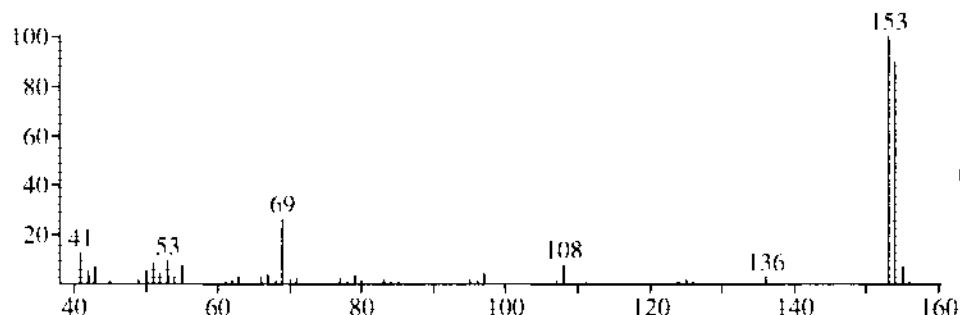
CN: 2-penten-1-ol, 2-methyl-5-(2-methyl-3-methylenebicyclo(2.2.1)hept-2-yl)-acetate (1S-(1α,2α(Z),4α))-

Synonyms: none

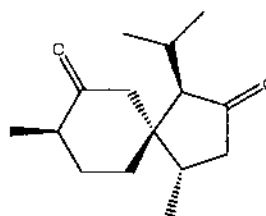
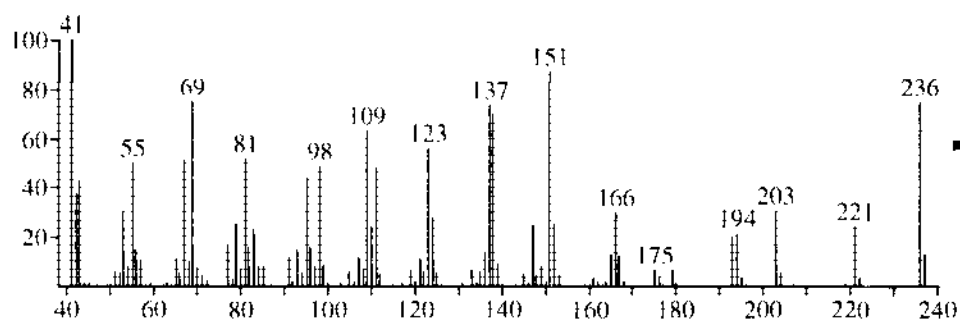
Source: acetylation of Sandalwood oil, RP Adams #5491



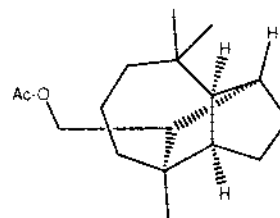
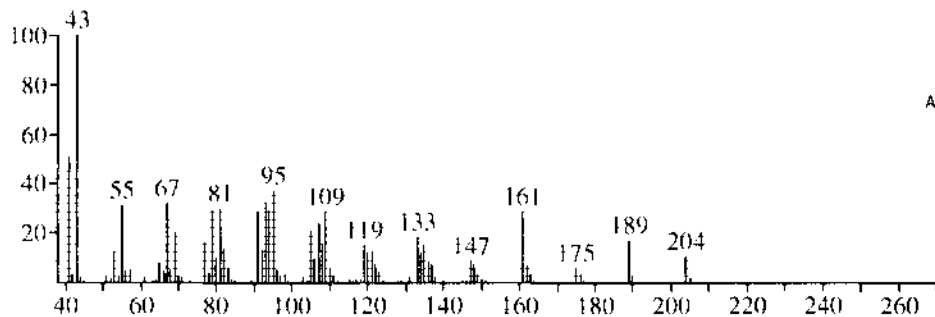
RT: 41.06 AI: 1818 KI: 1819 **Trihydroxy benzaldehyde <2,4,6->**
 CAS#: 487-70-7 MF: C₇H₆O₄ FW: 154 MSD LIB#: 1983
 CN: 2,4,6-trihydroxybenzaldehyde
 Synonyms: phloroglucinol aldehyde; formylphloroglucinal
 Source: Aldrich Res. ex JJ Brophy



RT: 41.09 AI: 1819 KI: 1820 **Acorone**
 CAS#: 10121-28-5 MF: C₁₅H₂₄O₂ FW: 236 MSD LIB#: 19
 CN: spiro(4,5)decane-2,7-dione, 4,8-dimethyl-1-(1-methylethyl)-(1 α ,4 β ,5 β)
 Synonyms: 3,8-acoronedione
 Source: Alfred Bader ex E. von Rudloff



RT: 41.09 AI: 1819 KI: 1820 **Longifolol acetate <iso->**
 CAS#: 205697-15-0 MF: C₁₇H₂₈O₂ FW: 264 MSD LIB#: 1031
 CN: 1,4-methanoazulene-9-methanol, decahydro-4,8,8-trimethyl-,acetate, (1S-(1 α ,3 $\alpha\beta$,4 α ,8 $\alpha\beta$,9R*))
 Synonyms: none
 Source: acetylation of iso-longifolol (6675)



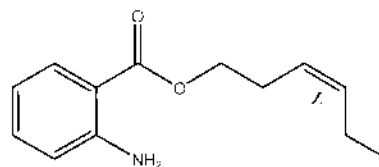
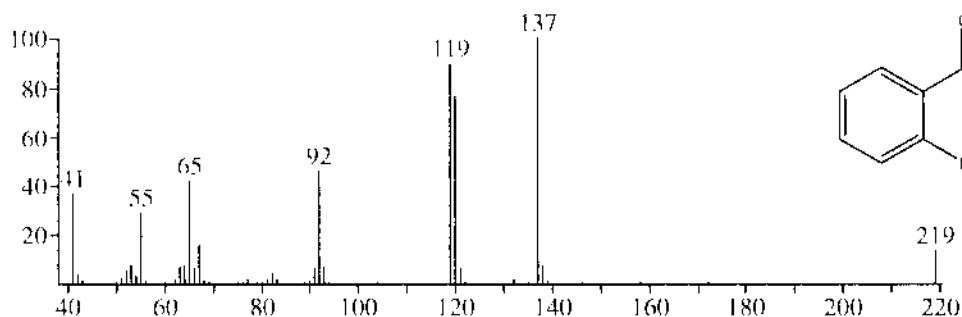
RT: 41.13 AI: 1820 KI: 1821 **Hexenyl anthranilate <(3Z)->**

CAS#: 65405-76-7 MF: C₁₃H₁₇N O₂ FW: 219 MSD LIB#: 809

CN: 3-hexen-1-ol, 2-aminobenzoate, (Z)-

Synonyms: none

Source: Bedoukian Res. ex Art Tucker



RT: 41.16 AI: 1821 KI: 1822 **Farnesyl acetate <(2Z,6E)->**

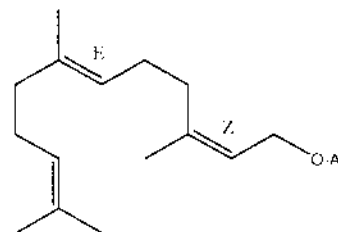
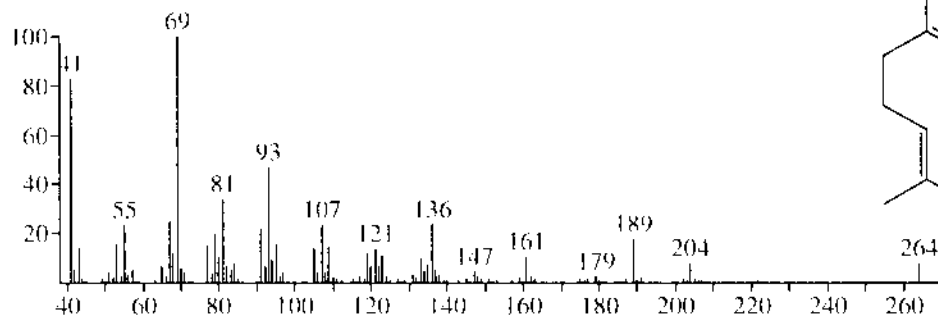
CAS#: 40266-29-3 MF: C₁₇H₂₈O₂ FW: 264 MSD LIB#: 709

CN: 2,6,10-dodecatrien-1-ol, 3,7,11-trimethyl-, acetate, (Z,E)-

Synonyms: 2-cis-6-trans-farnesyl acetate

Source: Fluka ex H. Hills: 3.80% *Hibiscus abelmoschus*, FEJ 7:65(1992);

0.40% *Nepeta crassifolia*



RT: 41.20 AI: 1822 KI: 1823 **Vetivone <β>**

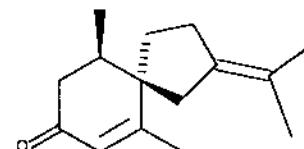
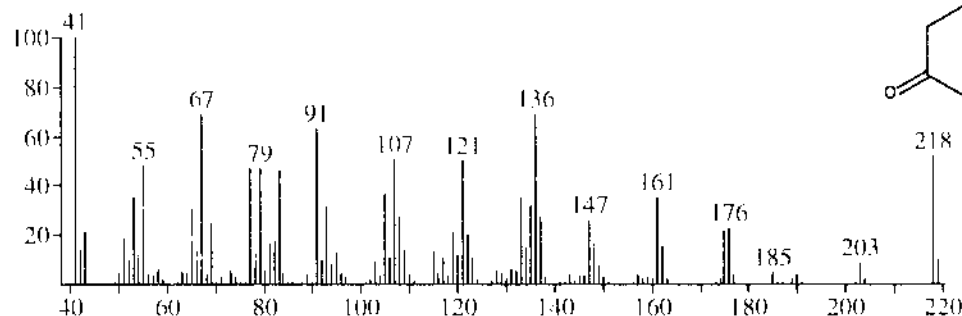
CAS#: 18444-79-6 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 1332

CN: spiro(4.5)dec-6-en-8-one, 2-isopropylidene-6,10-dimethyl-

Synonyms: none

Source: Vetiver oil, Haiti ex Texarome Inc.: 5.00% *Vetiveria zizanoides*,

Rivista Ital EPPOS 54:315(1992)



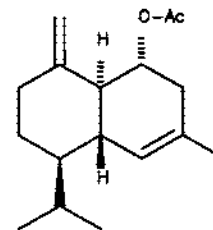
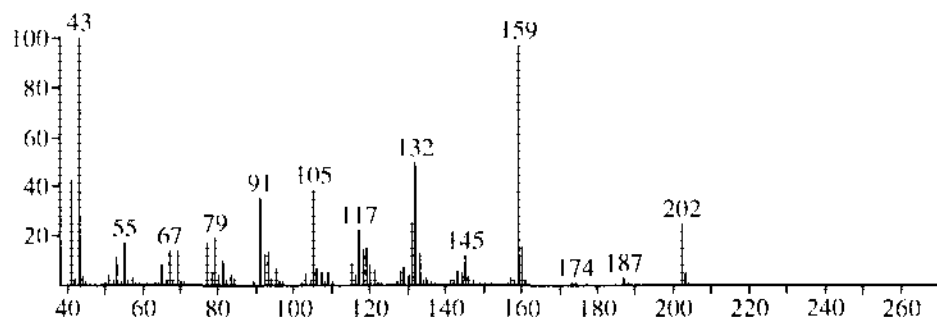
RT: 41.21 AE: 1823 KE: 1823 **Khusinol acetate**

CAS#: 78405-34-2 MF: C₁₇H₂₆O₂ FW: 262 MSD LIB#: 971

CN: 1-naphthalenol, 1,2,4a,5,6,7,8,8a-octahydro-3-methyl-8-methylene-5-(1-methylethyl)-, acetate, (1R-(1 α ,4 α ,5 β ,8 α))-

Synonyms: none

Source: acetylation of khusinol(6113)



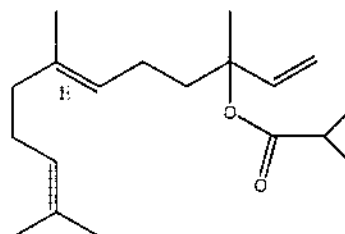
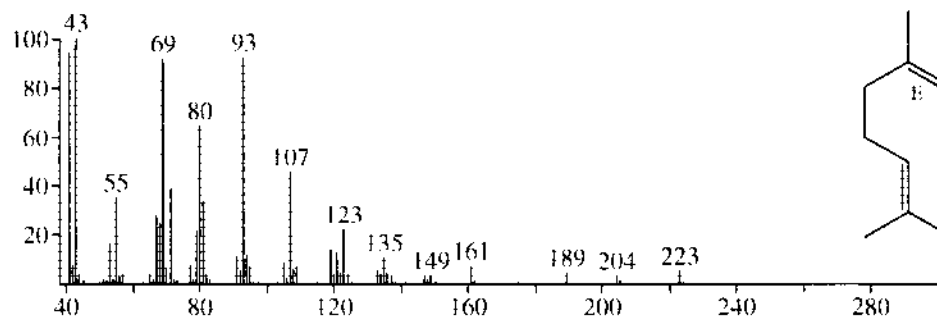
RT: 41.30 AE: 1825 KE: 1826 **Nerolidyl isobutyrate <(E)->**

CAS#: 000-00-0 MF: C₁₉H₃₂O₂ FW: 292 MSD LIB#: 2205

CN: propanoic acid, 2-methyl-, 1-ethenyl-1,5,9-trimethyl-4,8-decadienyl ester, (E)-

Synonyms: none

Source: Bedoukian Res.



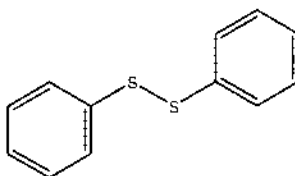
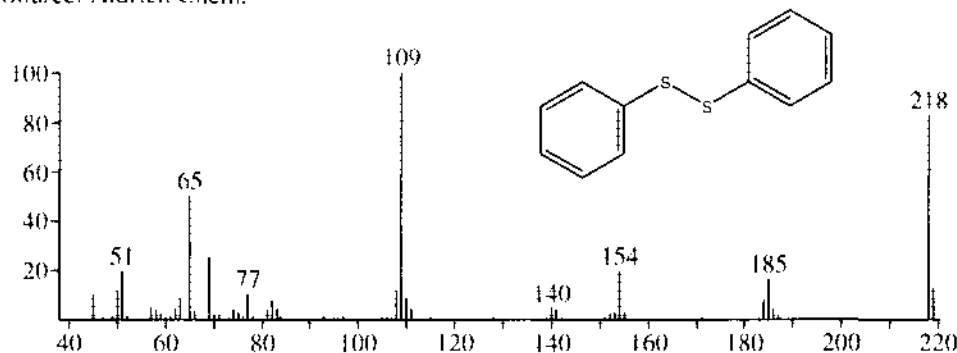
RT: 41.30 AE: 1825 KE: 1826 **Disulfide <diphenyl->**

CAS#: 882-33-7 MF: C₁₂H₁₀S₂ FW: 218 MSD LIB#: 1711

CN: disulfide, diphenyl

Synonyms: phenyl disulfide, biphenyl sulfide

Source: Aldrich Chem.



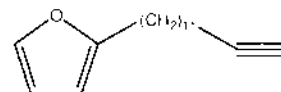
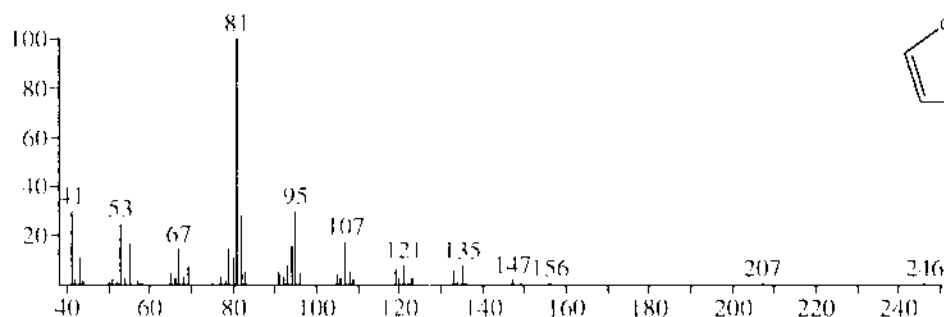
RT: 41.32 AI: 1826 KI: 1826 **Avocadynofuran**

CAS#: 24708-33-6 MF: C₁₇H₂₆O FW: 246 MSD LIB#: 254

CN: furan, 2-(12-tridecynyl)-

Synonyms: none

Source: ref. cpd. ex P. Weyerstahl



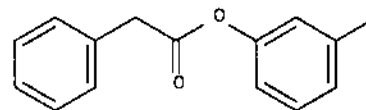
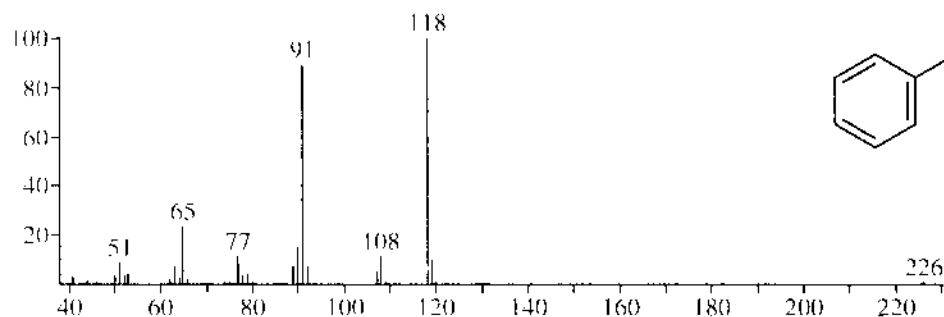
RT: 41.37 AI: 1827 KI: 1828 **Benzeneacetic acid, 3-methylphenyl ester**

CAS#: 122-27-0 MF: C₁₅H₁₄O₂ FW: 226 MSD LIB#: 269

CN: benzeneacetic acid, 3-methylphenyl ester

Synonyms: m-cresyl phenylacetate; m-tolyl phenylacetate

Source: Pfaltz & Bauer ex Art Tucker



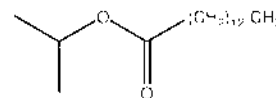
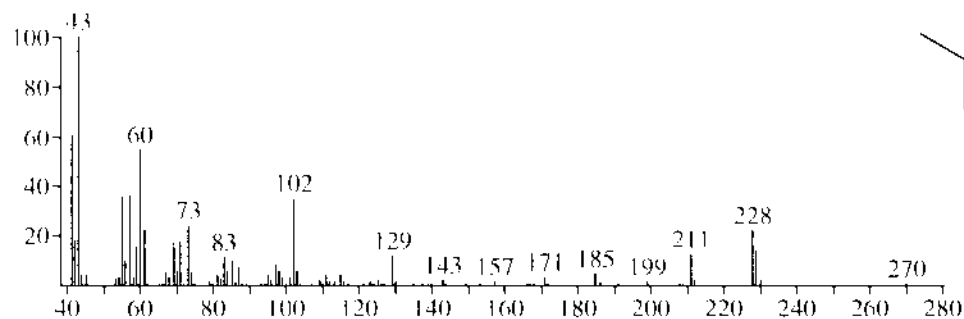
RT: 41.42 AI: 1828 KI: 1829 **Isopropyl tetradecanoate**

CAS#: 110-27-0 MF: C₁₇H₃₄O₂ FW: 270 MSD LIB#: 877

CN: isopropyl tetradecanoate

Synonyms: isopropyl myristate

Source: Aldrich Chem.



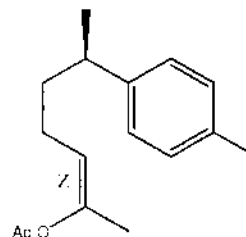
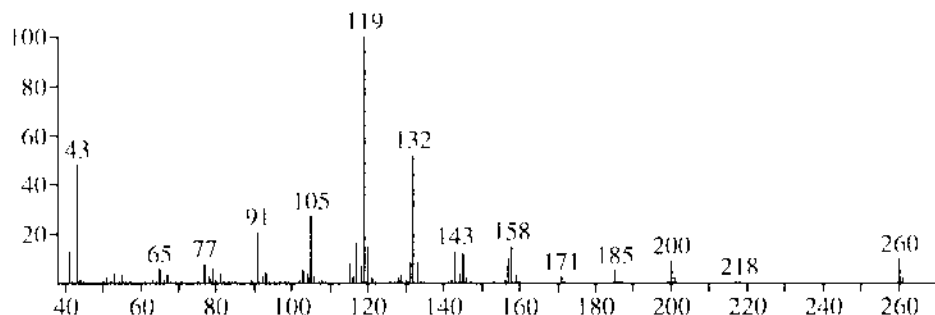
RT: 41.47 AI: 1830 KI: 1831 **Nuciferol acetate <(Z)->**

CAS#: 151593-40-7 MF: C₁₇H₂₄O₂ FW: 260 MSD LIB#: 1390

CN: 2-hepten-1-ol, 2-methyl-6-(4-methylphenyl)-, acetate, (2Z,6S)-

Synonyms: cis-nuciferol acetate

Source: acetylation of sandalwood oil (5477)



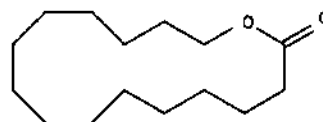
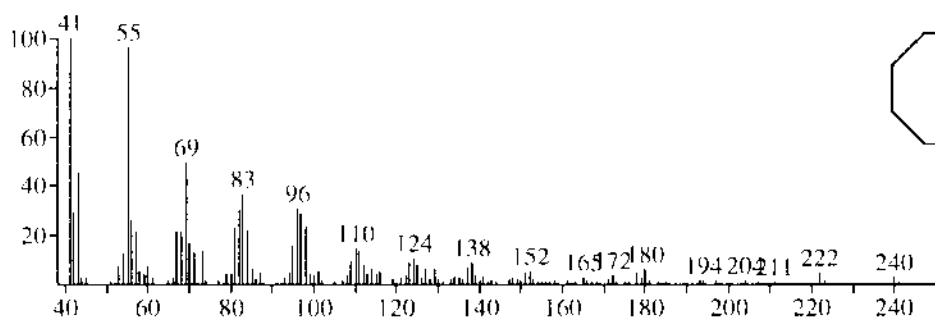
RT: 41.56 AI: 1832 KI: 1833 **Cyclopentadecanolide**

CAS#: 106-02-5 MF: C₁₅H₂₈O₂ FW: 240 MSD LIB#: 538

CN: oxacyclohexadecan-2-one

Synonyms: exaltolide; muskalactone; pentadecalactone; thibetolide

Source: Firmenich ex Art. Tucker



RT: 41.68 AI: 1836 KI: 1837 **Occidol**

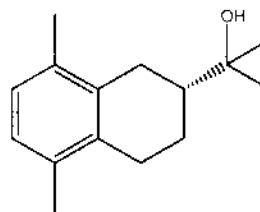
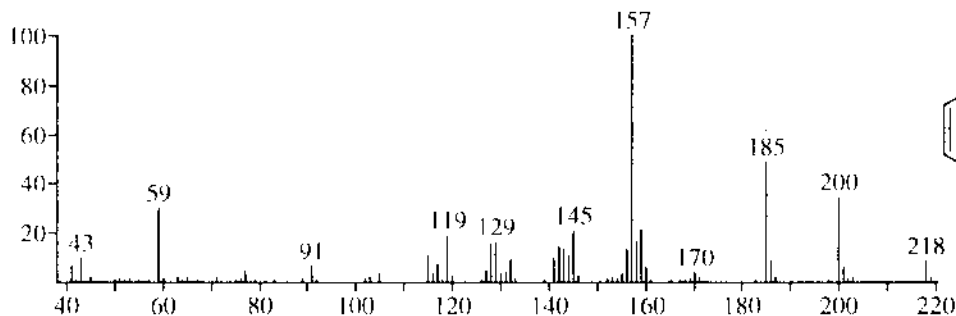
CAS#: 5986-36-7 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 1195

CN: 2-naphthalenemethanol, 1,2,3,4-tetrahydro- $\alpha,\alpha,5,8$ -tetramethyl-

Synonyms: none

Source: ref. cpd. ex H. von Rudloff; 36.00% *Thuja occidentalis* (wood), JFCOR 7:489(1995);

2.05% *Thuja occidentalis*



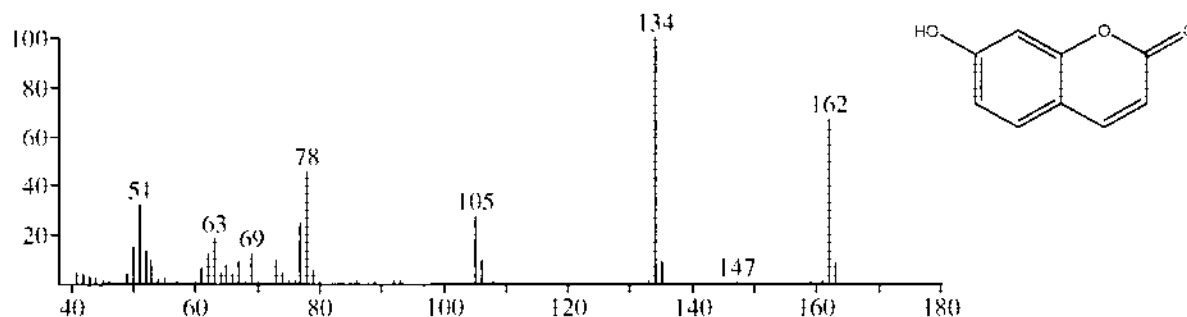
RT: 41.69 AI: 1836 KE: 1837 **Coumarin <7-hydroxy>**

CAS#: 93-35-6 MF: C₉H₆O₃ FW: 162 MSD LIB#: 478

CN: 2H-1-benzopyran-2-one, 7-hydroxy-

Synonyms: umbelliferone; hydrangine; skimmetine

Source: ref. cpd. ex E von Rudloff



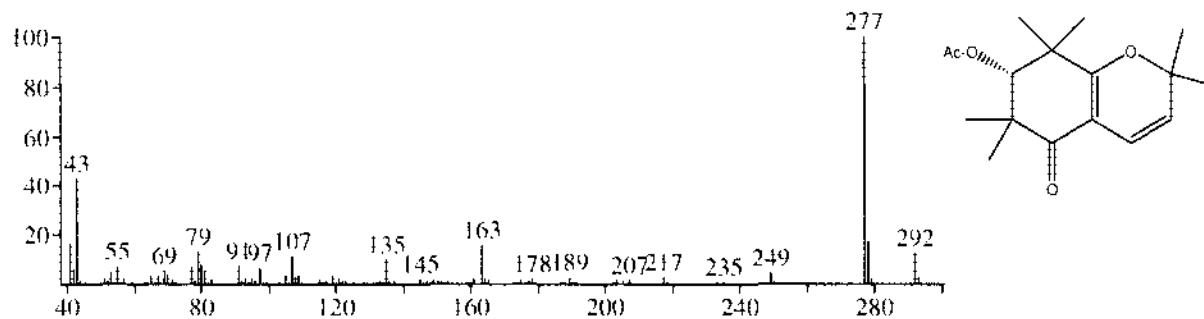
RT: 41.72 AI: 1837 KE: 1838 **Hillyl acetate**

CAS#: 162558-99-8 MF: C₁₇H₂₄O₄ FW: 292 MSD LIB#: 1676

CN: 5H-1-benzopyran-5-one, 7-(acetyloxy)-2,6,7,8-tetrahydro-2,2,6,6,8,8-hexamethyl-

Synonyms: none

Source: *Syncarpa hillyi* oil ex JJ Brophy



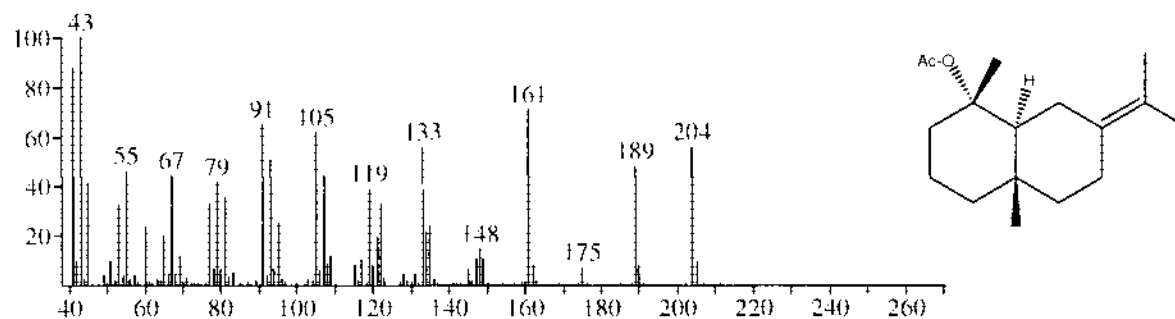
RT: 41.80 AI: 1839 KE: 1840 **Eudesm-7(11)-en-4-ol, acetate**

CAS#: 67987-89-7 MF: C₁₇H₂₈O₂ FW: 264 MSD LIB#: 965

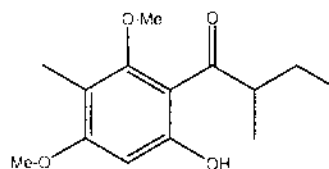
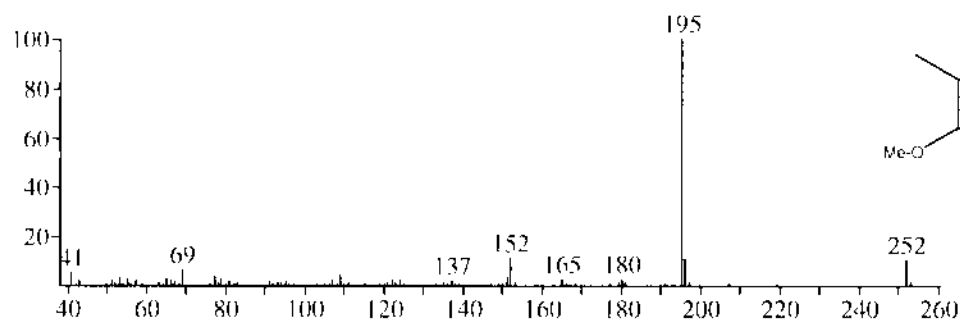
CN: 1-naphthalenol, decahydro-1,4a-dimethyl-7-(1-methylethylidene)-, acetate

Synonyms: juniper camphor, acetate

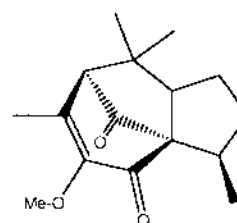
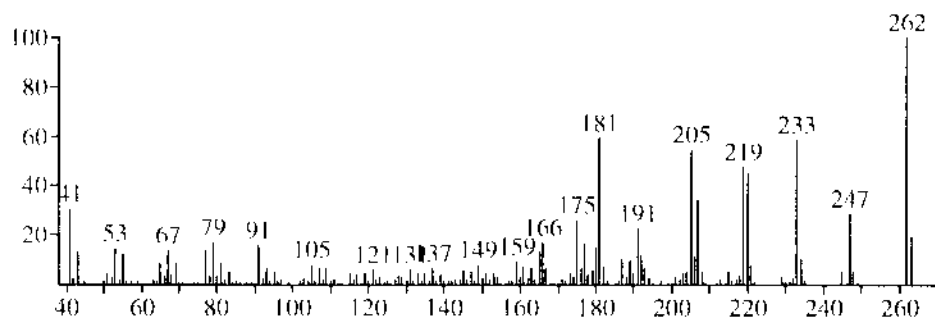
Source: acetylation of juniper camphor(6163)



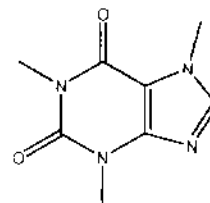
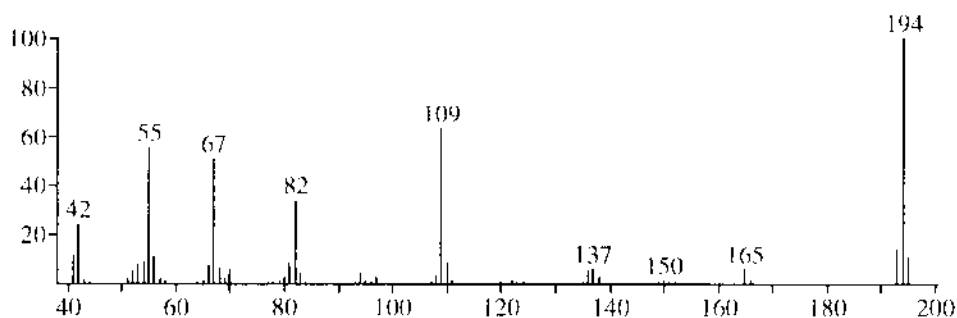
RT: 41.80 AI: 1839 KE: 1840 **Homoisobaeckeo**
 CAS#: 808751-13-5 MF: C₁₄H₂₀O₄ FW: 252 MSD LIB#: 1682
 CN: 1-butanone, 1-(6-hydroxy-2,4-dimethoxy-3-methylphenyl)-2-methyl-
 Synonyms: none
 Source: *Eucalyptus minuta* oil ex JJ Brophy



RT: 41.82 AI: 1840 KE: 1841 **Pipitzol <α-methyl, α>**
 CAS#: 103768-62-3 MF: C₁₆H₂₂O₃ FW: 262 MSD LIB#: 400
 CN: 4H-3a,7-methanoazulene-4,9-dione, 1,2,3,7,8,8a-hexahydro-5-methoxy-3,6,8,8-tetramethyl-,
 (3R-(3α,3α,7α,8αβ))-
 Synonyms: none
 Source: ref. epd. ex Joseph-Nathan, Mexico



RT: 41.85 AI: 1841 KE: 1842 **Caffeine**
 CAS#: 58-08-2 MF: C₈H₁₀N₄O₂ FW: 194 MSD LIB#: 344
 CN: caffeine
 Synonyms: none
 Source: Aldrich Chem.



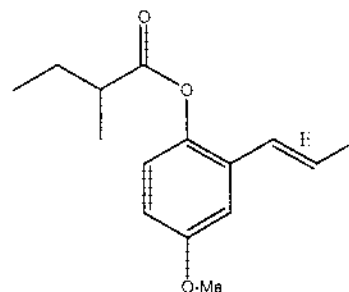
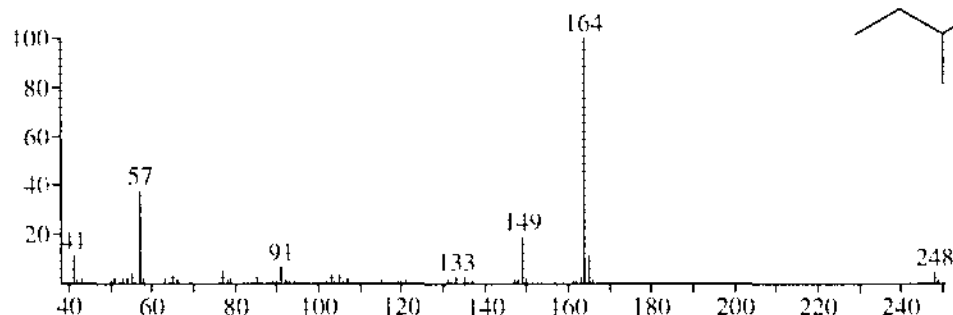
RT: 41.85 AI: 1841 KI: 1842 **Pseudoisocugenyl 2-methylbutyrate <(E)->**

CAS#: 58989-20-1 MF: C₁₅H₂₀O₃ FW: 248 MSD LIB#: 1823

CN: butanoic acid, 2-methyl-, 4-methoxy-2-(1E)-1-propenylphenyl ester

Synonyms: none

Source: *Pimpinella peregrina* root oil ex K-H Kubeczka



RT: 41.89 AI: 1842 KI: 1843 **Vetivone <α->**

CAS#: 15764-04-2 MF: C₁₅H₂₂O FW: 218 MSD LIB#: 1557

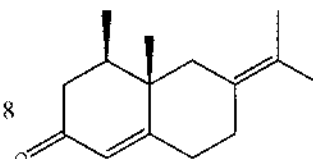
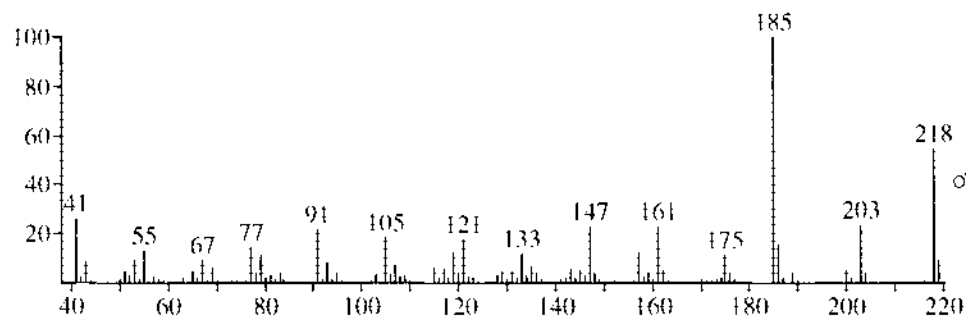
CN: 2(3H)-naphthalenone, 4,4a,5,6,7,8-hexahydro-4,4a-dimethyl-6-

(1-methylethylidene)-, (4R-cis)-

Synonyms: eremophila-1(10),7(11)-dien-2-one, 4-β-5-α-, iso-nootkatone

Source: alc. fr. of vetiver oil ex N Sellier; 5.00% *Vetiveria zizanioides*.

Rivista Ital LPPPOS 54:315(1972)



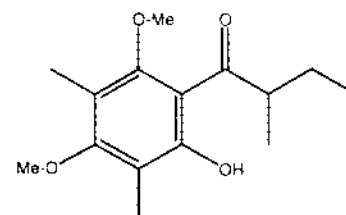
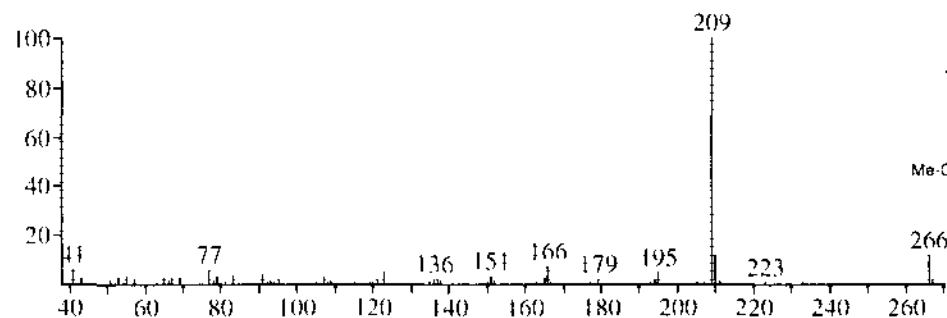
RT: 41.96 AI: 1844 KI: 1845 **Isotorquatone <demethyl->**

CAS#: 808751-11-3 MF: C₁₅H₂₂O₄ FW: 266 MSD LIB#: 1683

CN: 1-butanone, 1-(2-hydroxy-4,6-dimethoxy-3,5-dimethylphenyl)-2-methyl-

Synonyms: chartabomone

Source: *Eucalyptus minuta* oil ex JJ Brophy



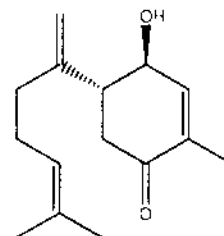
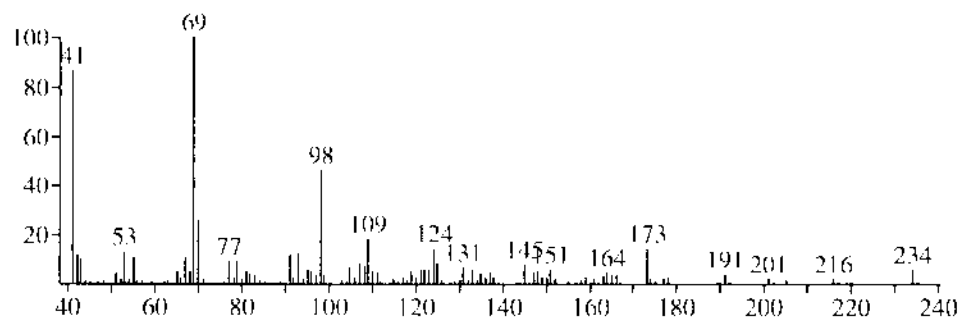
RT: 41.97 AI: 1844 KI: 1845 **Bisabolatrien-1-ol-4-one <2,7(14),10->**

CAS#: 216372-16-6 MF: C₁₅H₂₂O₂ FW: 234 MSD LIB#: 495

CN: 2-cyclohexen-1-one, 4-hydroxy-2-methyl-5-(5-methyl-1-methylene-4-hexenyl)-(4R,5S)-

Synonyms: none

Source: *Cryptomeria japonica* ex S. Nagahama



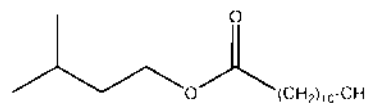
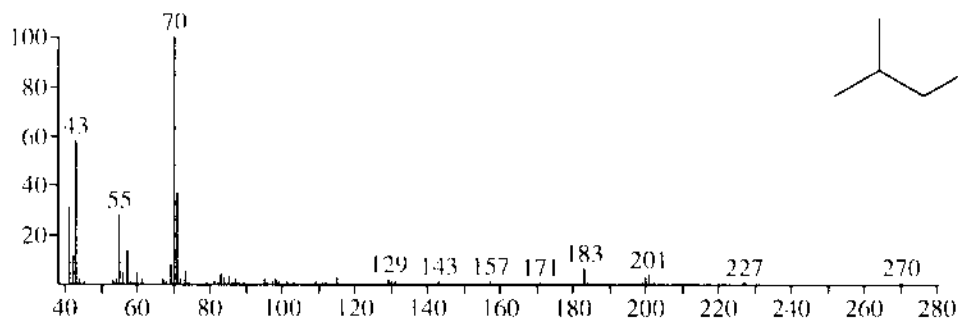
RT: 41.97 AI: 1844 KI: 1845 **Isoamyl dodecanoate**

CAS#: 6309-51-9 MF: C₁₇H₃₄O₂ FW: 270 MSD LIB#: 853

CN: dodecanoic acid, 3-methylbutyl ester

Synonyms: isopentyl laurate; isopentyl dodecanoate; isoamyl laurate

Source: Pfaltz & Bauer ex Art Tucker



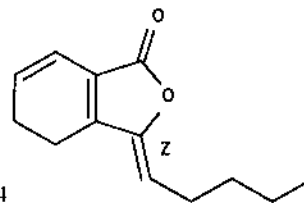
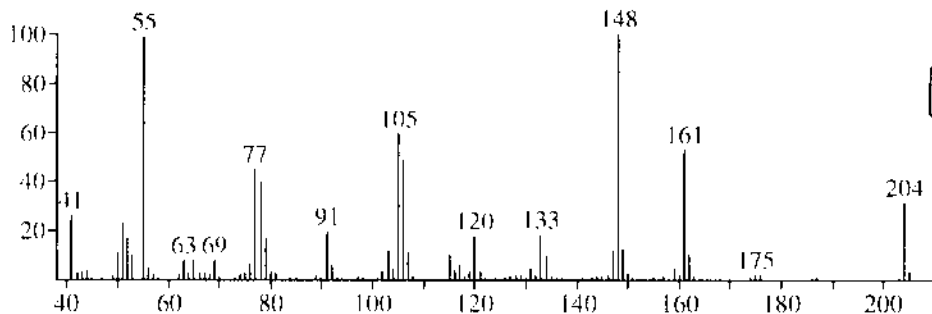
RT: 41.97 AI: 1844 KI: 1845 **Ternine <(Z)->**

CAS#: 116964-00-2 MF: C₁₃H₁₆O₂ FW: 204 MSD LIB#: 1038

CN: 1(3H)-isobenzofuranone, 4,5-dihydro-3-pentylidene-(Z)-

Synonyms: phthalide, cis-3-valerylidene-3,4-dihydro-

Source: Lovage root oil ex F. Perineau



RT: 42.01 AI: 1845 KI: 1846 **Farnesyl acetate <(2E,6E)->**

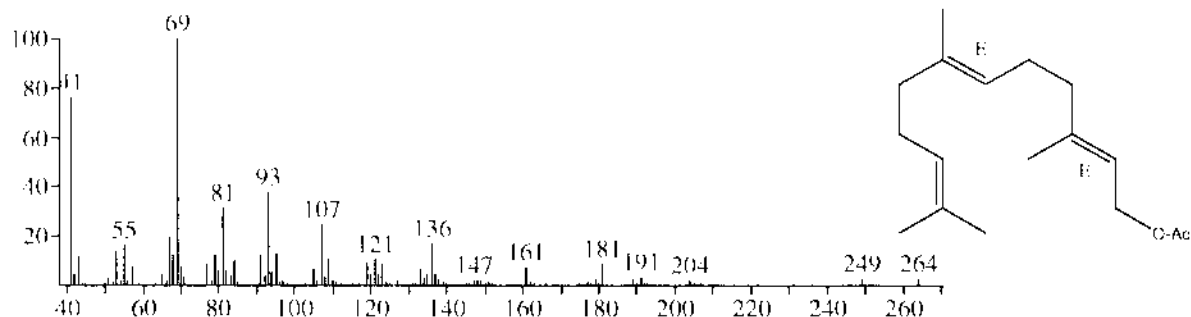
CAS#: 4128-17-0 MF: C₁₇H₂₈O₂ FW: 264 MSD LIB#: 710

CN: 2,6,10-dodecatrien-1-ol, 3,7,11-trimethyl-, acetate, (E,E)-

Synonyms: trans, trans-farnesyl acetate

Source: Fluka ex H. Hills; 64.22% *Hibiscus abelmoschus*, Acta Bot.

Yunnan 12:113(1990); 4.34% *Eucalyptus tereticornis*; 3.46% *Cananga odorata*



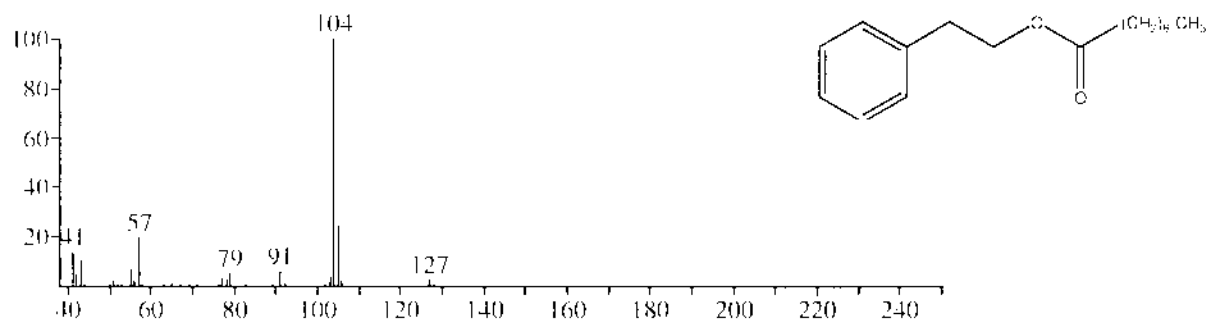
RT: 42.03 AI: 1846 KI: 1847 **Phenyl ethyl octanoate**

CAS#: 5457-70-5 MF: C₁₆H₂₄O₂ FW: 248 MSD LIB#: 1288

CN: octanoic acid, 2 phenylethyl ester

Synonyms: none

Source: Aldrich Chem. ex Art Tucker



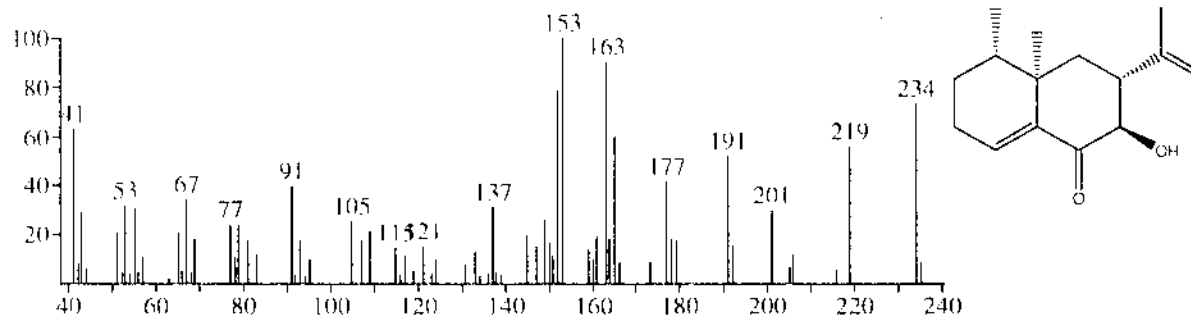
RT: 42.05 AI: 1846 KI: 1847 **Eremophilone <8-hydroxy->**

CAS#: 5090-90-4 MF: C₁₅H₂₂O₂ FW: 234 MSD LIB#: 1802

CN: eremophila-1(10),11-dien-9-one, 8 α -hydroxy-

Synonyms: none

Source: *Eremophila mitchelli* oil ex Ian Southwell



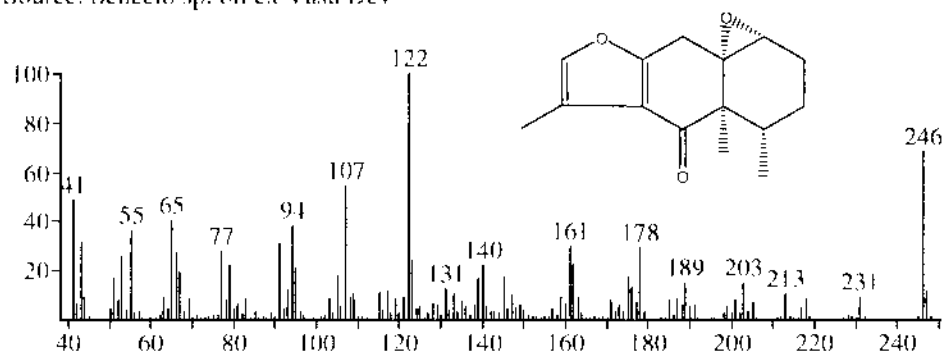
RT: 42.10 AI: 1848 KI: 1849 **Oxofuranoeremophilane <1,10- β -epoxy-6->**

CAS#: 59742-12-0 MF: C₁₅H₁₈O₃ FW: 246 MSD LIB#: 1932

CN: 3H-oxireno(8,8a)naphtho(2,3-b)furan-5(9H)-one, 1a,2,4,4a-tetrahydro-4,4a,6-trimethyl-, (1aR-(1a α ,4 β ,4a β ,9aS*))-

Synonyms: none

Source: Senecio sp. oil ex Vasu Dev



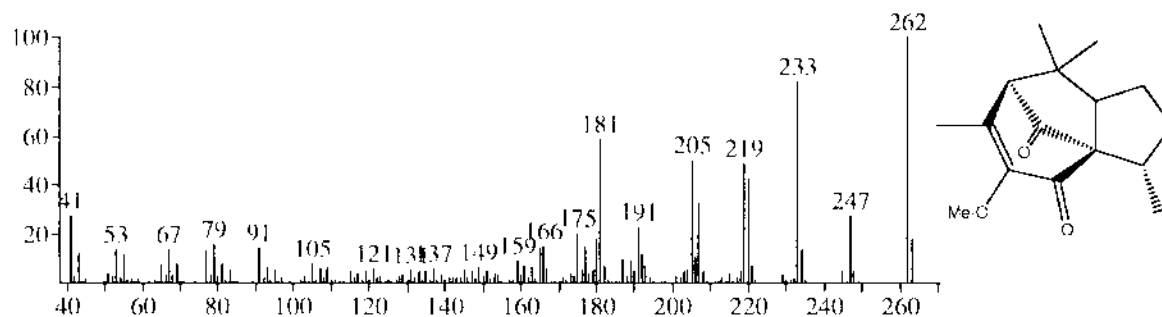
RT: 42.30 AI: 1853 KI: 1855 **Pipitzol < α -methyl, β ->**

CAS#: 106790-99-2 MF: C₁₆H₂₂O₃ FW: 262 MSD LIB#: 403

CN: 4H-3a,7-methanoazulene-4,9-dione, 1,2,3,7,8,8a-hexahydro-5-methoxy-3,6,8,8-tetramethyl-, (3R-(3 α ,3a β ,7 β ,8a α))-

Synonyms: none

Source: ref. cpd. ex Joseph-Nathan, Mexico



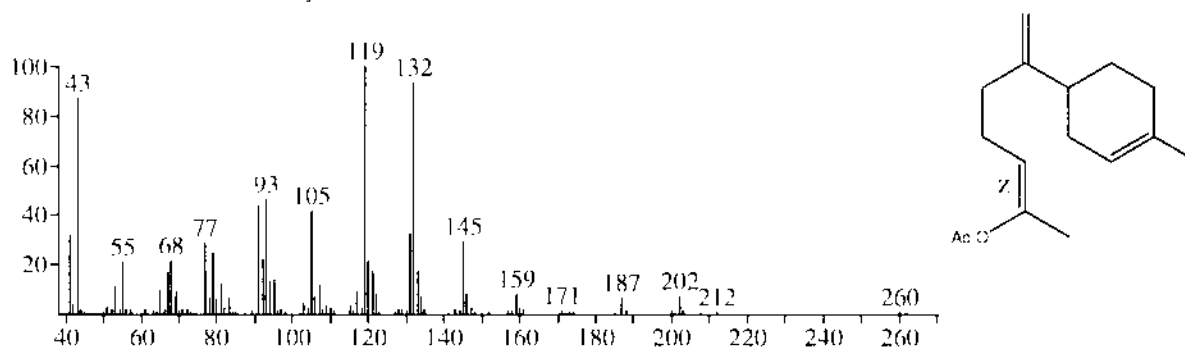
RT: 42.32 AI: 1854 KI: 1855 **Lanceol acetate <(Z)->**

CAS#: 117898-00-7 MF: C₁₇H₂₆O₂ FW: 262 MSD LIB#: 1389

CN: 2,6-heptadien-1-ol, 2-methyl 6-((1S)-4-methyl-3-cyclohexen-1-yl)-, acetate(2Z)-

Synonyms: cis-lanceol acetate

Source: Sandalwood oil acetylation rxn. of 5477



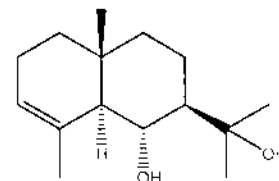
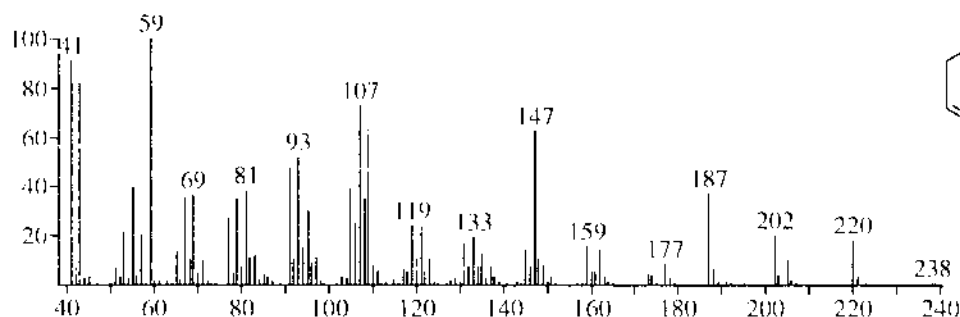
RT: 42.36 AI: 1855 KI: 1856 **Chenopodiol <α>**

CAS#: 67996-31-0 MF: C₁₅H₂₆O₂ FW: 238 MSD LIB#: 436

CN: 2 naphthalenemethanol, 1,2,3,4,4a,5,6,8a-octahydro-1-hydroxy-α,α,4a,8-tetramethyl-, (1R,2R,4aR,8aR)-

Synonyms: none

Source: rel. cpd. ex Vasu Dev



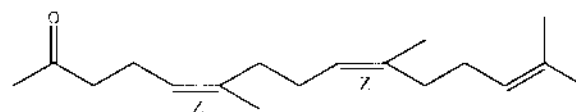
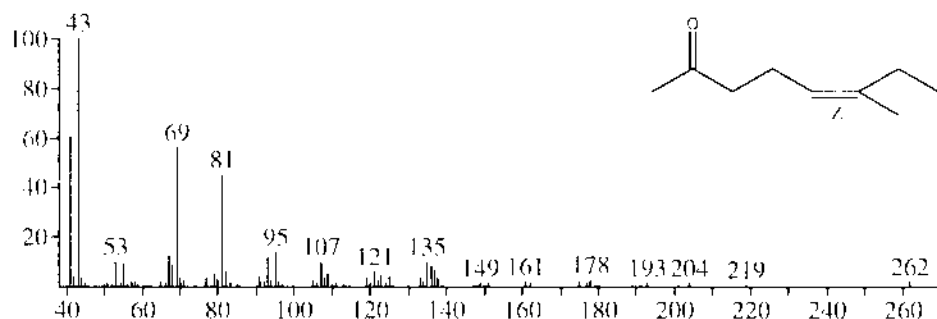
RT: 42.54 AI: 1860 KI: 1861 **Farnesyl acetone <(Z,Z)>**

CAS#: 3796-69-8 MF: C₁₈H₃₀O FW: 262 MSD LIB#: 2139

CN: 5,9,13-pentadecatrien-2-one, 6,10,14-trimethyl-, (5Z,9Z)-

Synonyms: cis, cis-farnesyl acetone

Source: Bedoukian Res.



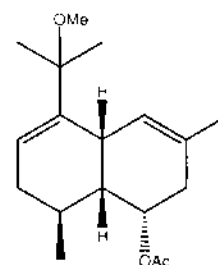
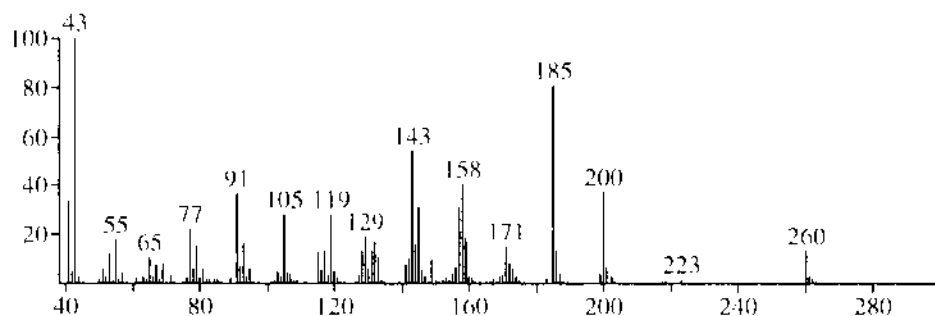
RT: 42.55 AI: 1861 KI: 1862 **Amorpha-4,7-diene <2-α-acetoxy-11-methoxy>**

CAS#: 449204-58-4 MF: C₁₈H₂₈O₃ FW: 292 MSD LIB#: 1892

CN: 1-naphthalenol, 1,2,4a,7,8,8a-hexahydro-5-(1-methoxy-1-methylethyl)-3,8-dimethyl-acetate, (1S,4aR,8S,8aR)-

Synonyms: none

Source: Maque oil ex W. Koenig



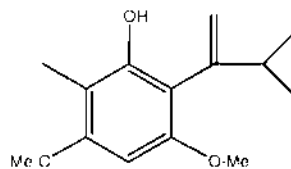
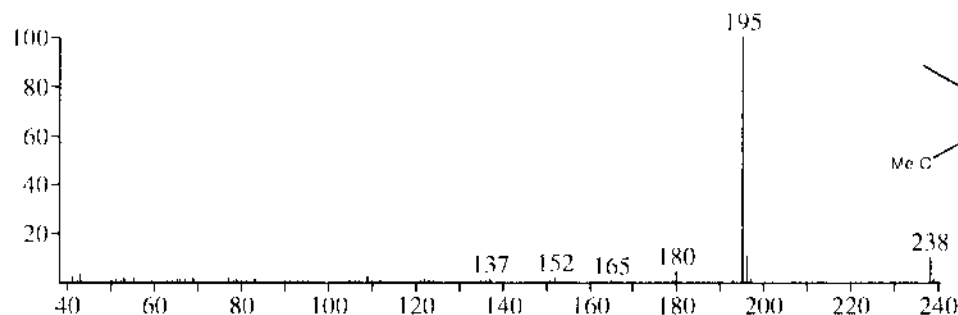
RT: 42.58 AI: 1861 KI: 1862 **Baeckeol**

CAS#: 479-88-9 MF: C₁₃H₁₈O₄ FW: 238 MSD LIB#: 1845

CN: 1-propanone,1-(2-hydroxy-4,6-dimethoxy-3-methylphenyl)-2-methyl-

Synonyms: Beckeol

Source: *Melaleuca cuticularis* ex JJ Brophy



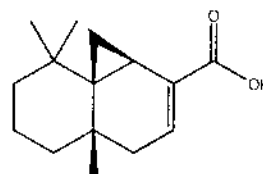
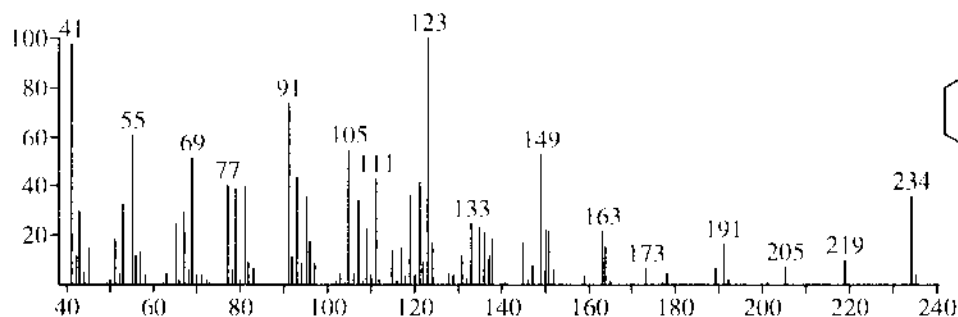
RT: 42.65 AI: 1863 KI: 1864 **Thujopsenic acid <cis->**

CAS#: 546-53-2 MF: C₁₅H₂₂O₂ FW: 234 MSD LIB#: 2162

CN: cyclopropa(d)naphthalene-2-carboxylic acid, 1,1a,4,4a,5,6,7,8-octahydro-4a,8,8-trimethyl-, (1aS,4aS,8aR)-

Synonyms: hinokiic acid, widdrenic acid

Source: ref. cpd. ex E. von Rudloff



RT: 42.68 AI: 1864 KI: 1865 **Benzyl salicylate**

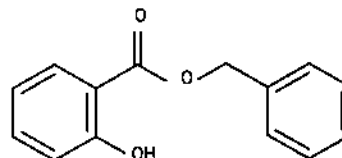
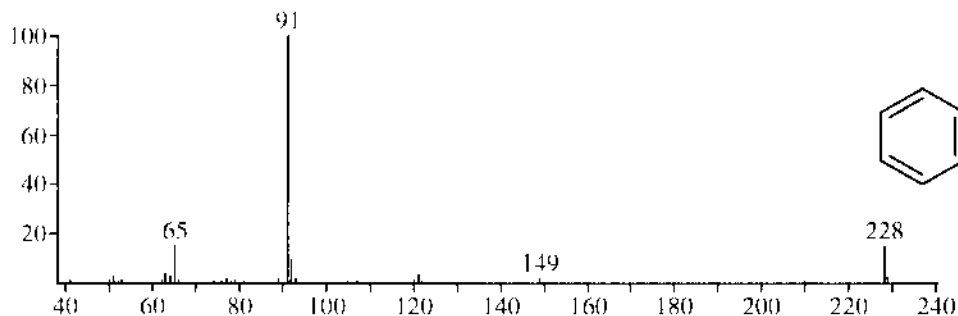
CAS#: 118-58-1 MF: C₁₄H₁₂O₃ FW: 228 MSD LIB#: 261

CN: benzoic acid, 2-hydroxy-, phenylmethyl ester

Synonyms: benzyl o-hydroxybenzoate

Source: Ayon oil ex P. Weyerstahl; 26.90% *Diospyros discolor*, JEOR 4:287(1992);

9.40% *Alseuosmia macrophylla*; 5.20% *Cananga odorata*



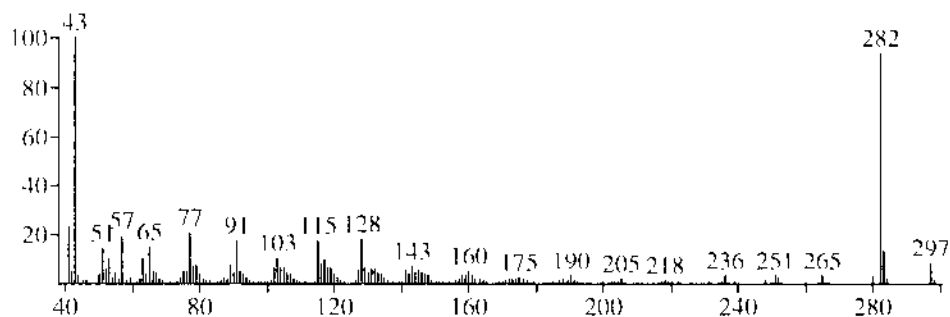
RT: 42.73 AI: 1866 KI: 1867 **Musk xylol**

CAS#: 81-15-2 MF: C₁₂H₁₅N₃O₆ FW: 297 MSD LIB#: 1116

CN: benzene, 1-(1,1-dimethylethyl)-3,5-dimethyl-2,4,6-trinitro-

Synonyms: musk xylene; xylene musk

Source: Givaudan ex Art Tucker



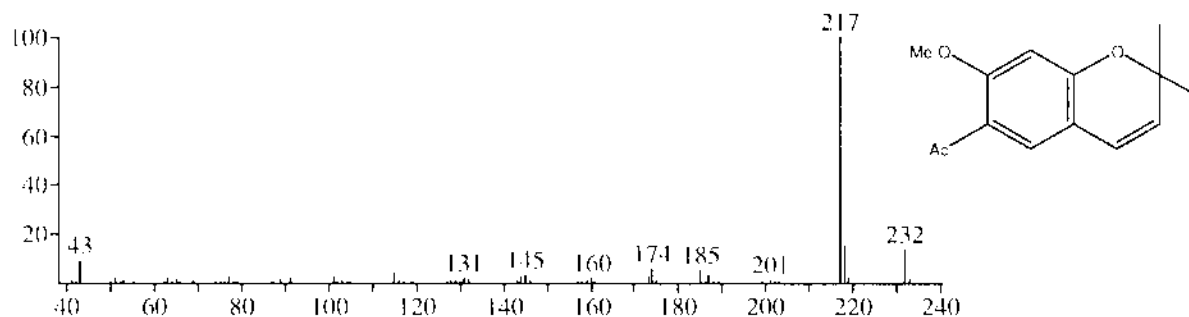
RT: 42.75 AI: 1866 KI: 1867 **Encecalin**

CAS#: 20628-09-5 MF: C₁₄H₁₆O₃ FW: 232 MSD LIB#: 777

CN: ethanone, 1-(7-methoxy-2,2-dimethyl-2H-1-benzopyran-6-yl)-

Synonyms: none

Source: *Hemizonia fitchii* oil, RP Adams #3383



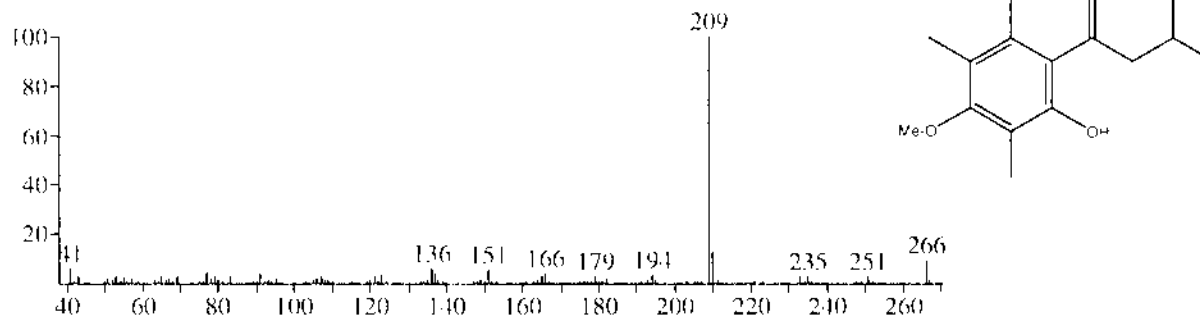
RT: 42.75 AI: 1866 KI: 1867 **Torquatone <demethyl->**

CAS#: 808751-12-4 MF: C₁₅H₂₂O₄ FW: 266 MSD LIB#: 1684

CN: 1-butanone, 1-(2-hydroxy-4,6-dimethoxy-3,5-dimethylphenyl)-3-methyl-

Synonyms: miniatone

Source: *Eucalyptus minuta* oil ex JJ Brophy



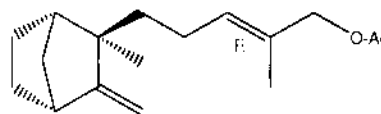
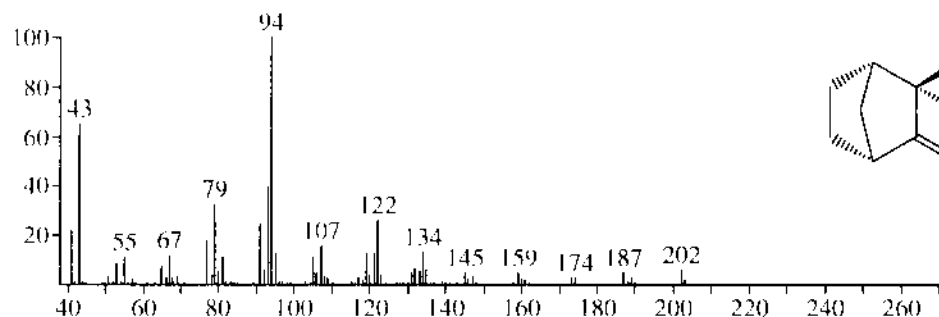
RT: 42.79 AI: 1867 KI: 1868 **Santalol acetate <(E)-β>**

CAS#: 78856-39-0 MF: C₁₇H₂₆O₂ FW: 262 MSD LIB#: 1395

CN: 2-penten-1-ol, 2-methyl-5-(2-methyl-3-methylenebicyclo(2.2.1)hept-2-yl)-, acetate, (1S-(1α,2α(E),4α))-

Synonyms: none

Source: acetylation of Sandalwood oil(5491)



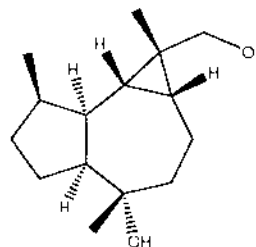
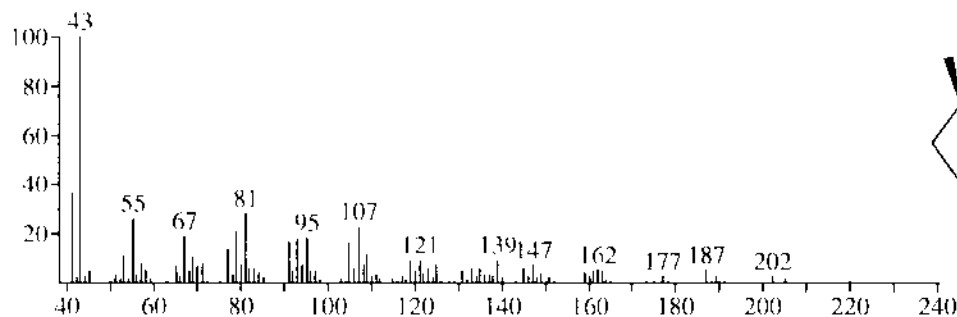
RT: 42.84 AI: 1869 KI: 1870 **Flourensadiol**

CAS#: 55812-89-0 MF: C₁₅H₂₆O₂ FW: 238 MSD LIB#: 720

CN: 1H-cyclopropte)azulene-1-methanol, decahydro-4-hydroxy-1,4,7-trimethyl-, (1R-(1α,1αβ,4α,4αα,7β,7αα,7ββ))-

Synonyms: none

Source: *Flourensia cernua* ex Rick Istell, NM, USDA



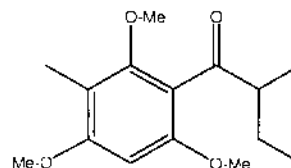
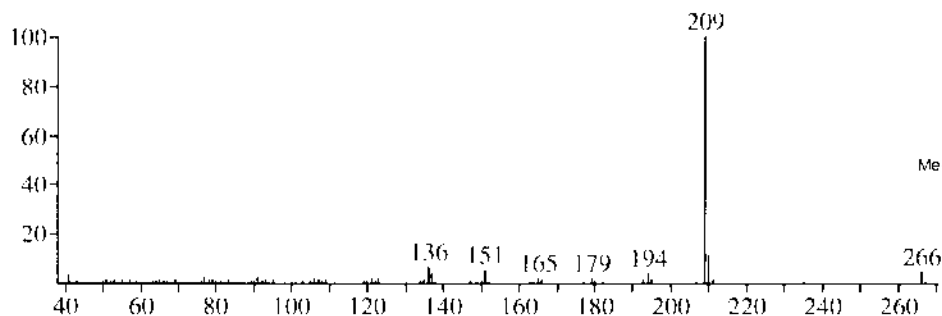
RT: 42.93 AI: 1871 KI: 1872 **Homoisobaeckeo methyl ether**

CAS#: 808749-86-2 MF: C₁₅H₂₂O₄ FW: 266 MSD LIB#: 1685

CN: 1-butanone, 2-methyl-1-(2,4,6-trimethoxy-3-methylphenyl)-

Synonyms: none

Source: *Eucalyptus minuta* oil ex JJ Brophy



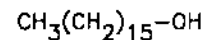
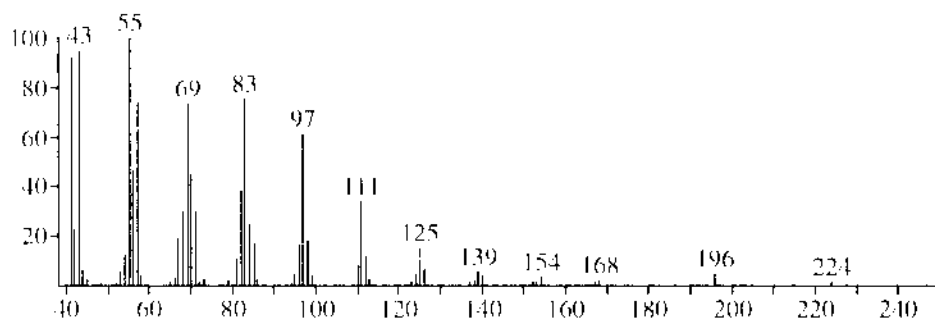
RT: 43.03 AI: 1874 KI: 1875 **Hexadecanol <n>**

CAS#: 36653-82-4 MF: C₁₆H₃₄O FW: 242 MSD LIB#: 29

CN: 1-hexadecanol

Synonyms: cetanol, cetyl alcohol

Source: Alcohol mix ex E. von Rudloff: 0.79% *Blumea lanceolaria*, JEOR 3:285(1991);
0.50% *Sideritis condensata*; 0.43% *Fissitigma shangtzeense* (flower extract)



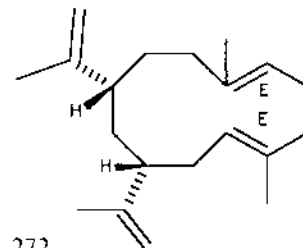
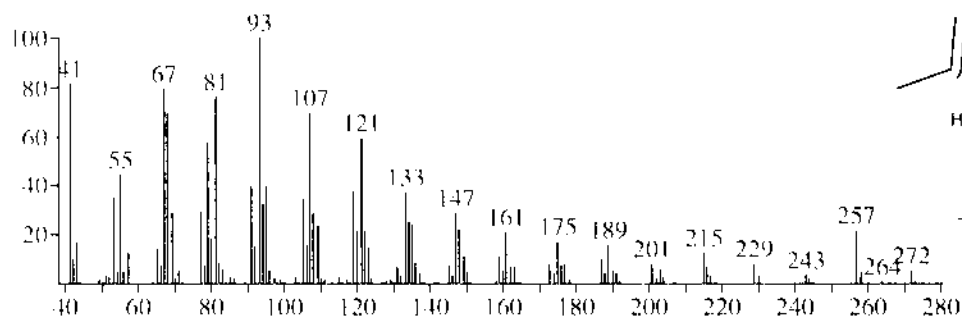
RT: 43.15 AI: 1878 KI: 1878 **Cubitene**

CAS#: 66723-19-1 MF: C₂₀H₃₂ FW: 272 MSD LIB#: 1463

CN: 1,5-cyclododecadiene, 1,5-dimethyl-8,10-bis(1-methylethenyl)-,
(8S-(1E,5E,8R*,10S*))-

Synonyms: none

Source: termites, Cubitermes ex GD Prestwich



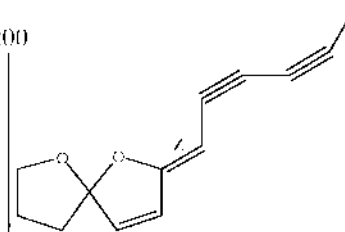
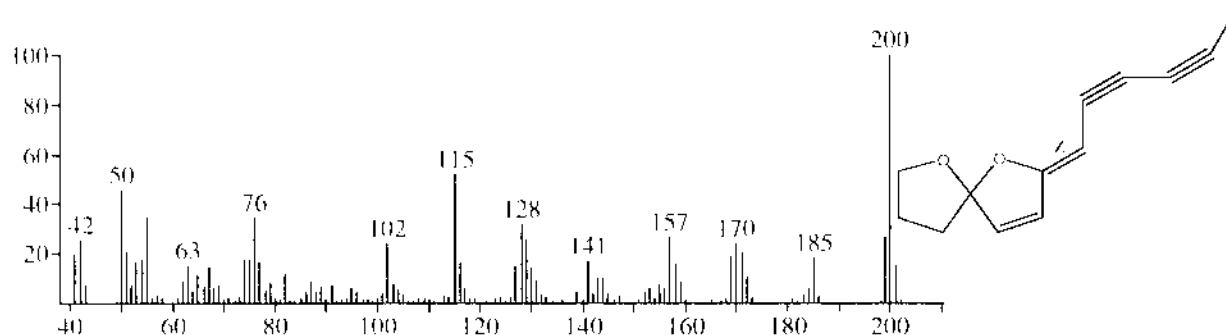
RT: 43.19 AI: 1879 KI: 1879 **Spiroether <(Z)>**

CAS#: 4575-53-5 MF: C₁₃H₁₂O₂ FW: 200 MSD LIB#: 1819

CN: 1,6-dioxaspiro[4.4]non-3-ene,2-(2,4-hexadiynylidene)-, (2Z)-

Synonyms: Tonghaosu (Z-)

Source: Chamomile oil, Spain ex K. H. Kubeczka



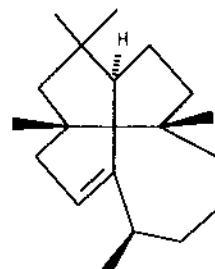
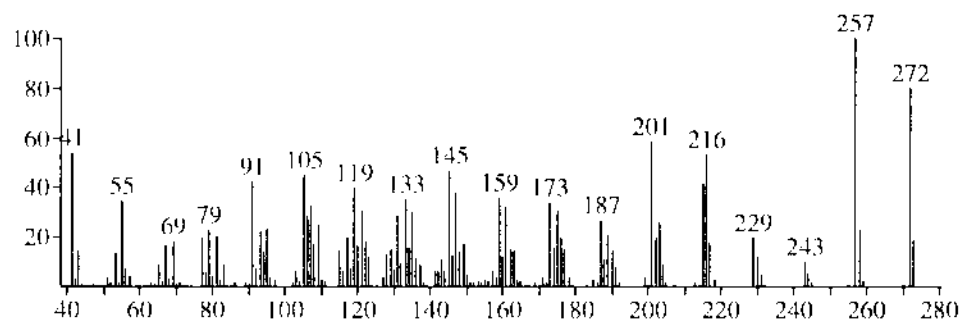
RT: 43.20 AI: 1879 KI: 1880 **Laurenene**

CAS#: 90025-15-3 MF: C₂₀H₃₂ FW: 272 MSD LIB#: 1336

CN: pentalenol(1,6-cd)azulene,1,2,2a,3,4,4a,5,7,8,9,10,10a-dodecahydro-3,3,4a,7,10a-pentamethyl-, (2a α ,4a β ,7 β ,10a β ,10bR*)-

Synonyms: none

Source: ref. cpd. ex Rex Weavers (ex *Podocarpus*)



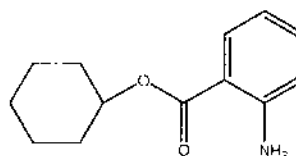
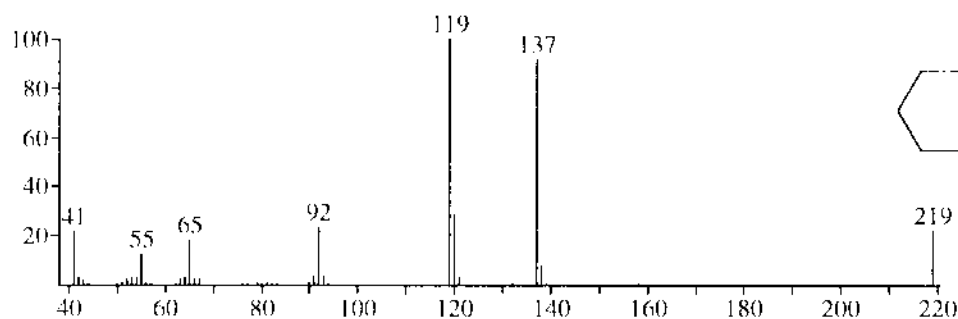
RT: 43.22 AI: 1880 KI: 1881 **Cyclohexyl anthranilate**

CAS#: 7779-16-0 MF: C₁₃H₁₇N O₂ FW: 219 MSD LIB#: 2189

CN: benzoic acid, 2-amino-, cyclohexyl ester

Synonyms: anthranilic acid: cyclohexanol ester

Source: Bedoukian Res.



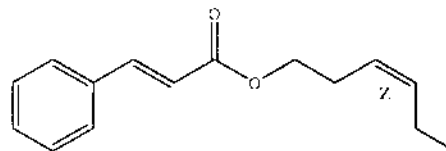
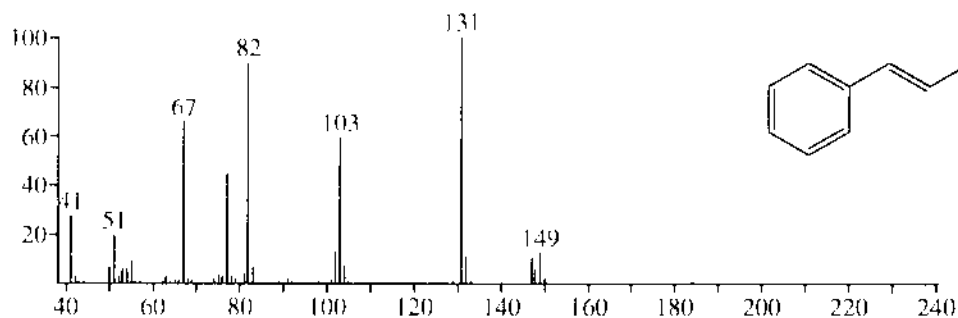
RT: 43.25 AI: 1880 KI: 1881 **Hexenyl cinnamate <(3Z)->**

CAS#: 68133-75-5 MF: C₁₅H₁₈O₂ FW: 230 MSD LIB#: 810

CN: 2-propenoic acid, 3-phenyl-, 3-hexenyl ester, (3Z)-

Synonyms: none

Source: Bedoukian Res. ex Art Tucker



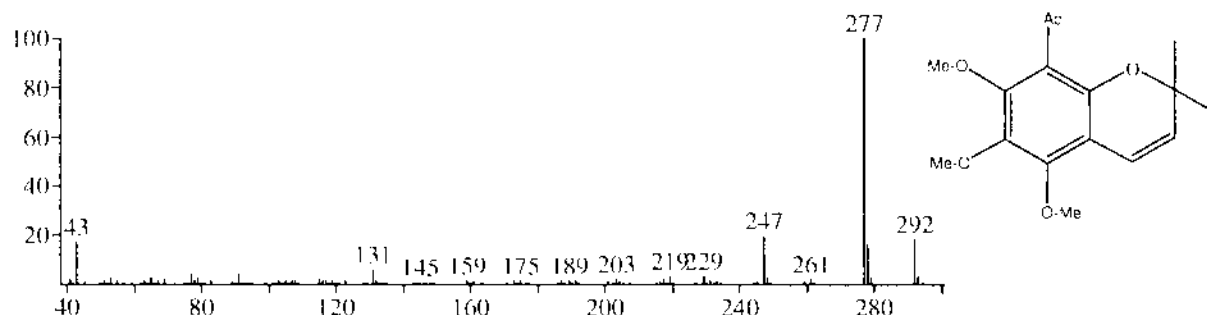
RT: 43.34 AI: 1883 KI: 1884 **Alloevodione**

CAS#: 482-52-0 MF: C₁₆H₂₀O₅ FW: 292 MSD LIB#: 1848

CN: ethanone, 1-(5,6,7-trimethoxy-2,2-dimethyl-2H-1-benzopyran-8-yl)-

Synonyms: none

Source: *Melicope elleryana* ex JJ Brophy



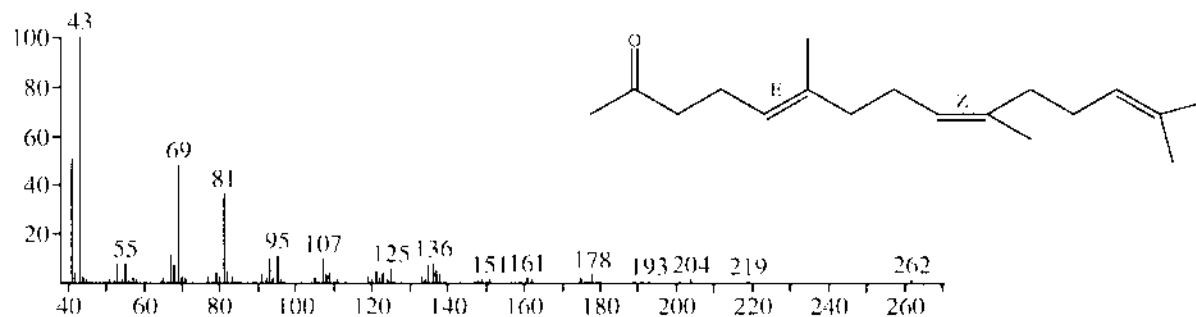
RT: 43.45 AI: 1886 KI: 1887 **Farnesyl acetone <(5E,9Z)->**

CAS#: 3953-35-3 MF: C₁₈H₃₀O FW: 262 MSD LIB#: 2140

CN: 5,9,13 pentadecatrien-2-one, 6,10,14-trimethyl-, (5E,9Z)-

Synonyms: trans, cis-farnesyl acetone

Source: Bedoukian Res.



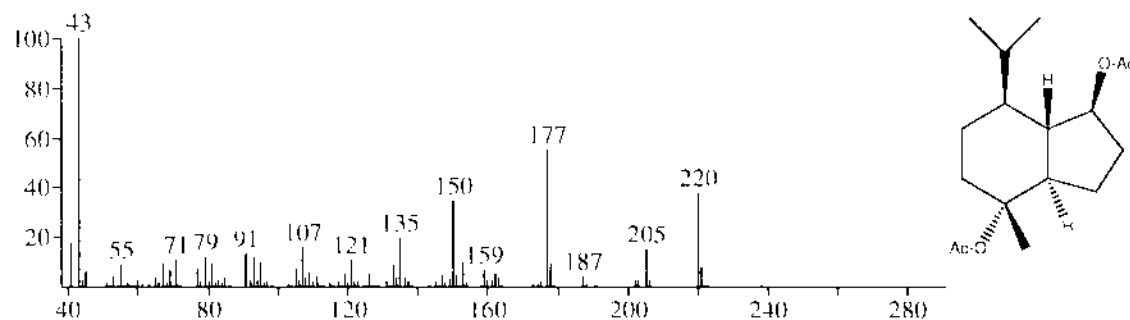
RT: 43.47 AI: 1887 KI: 1887 **Oplopanonyl acetate**

CAS#: 132032-86-1 MF: C₁₇H₂₈O₃ FW: 280 MSD LIB#: 1220

CN: ethanone, 1-(4-(acetyloxy)octahydro-4-methyl-7-(1-methylethyl)-1H-inden-1-yl)-, (1S-(1 α ,3 α ,4 β ,7 α ,7 α))-

Synonyms: none

Source: *Otacanthus coeruleus* oil ex H. DePooter; 8.70% *Chamaecyparis lawsonia*, JEOR 3:1(1991); 4.70% *Chamaecyparis pisifera*



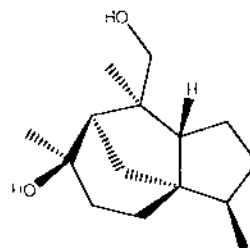
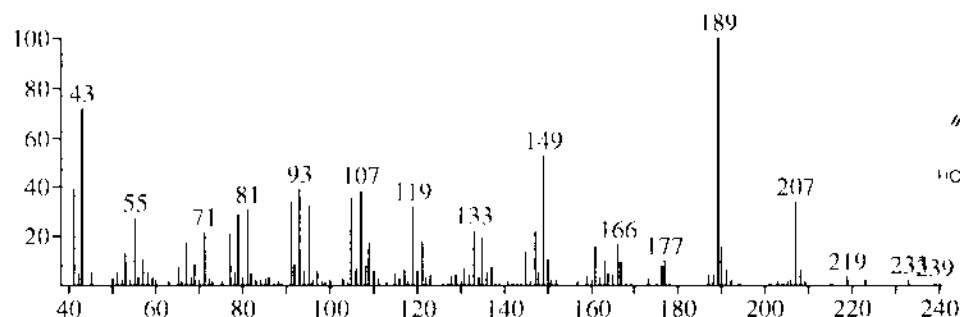
RT: 43.54 AI: 1889 KI: 1889 **Cedranediol <8S,14->**

CAS#: 62600-05-9 MF: C₁₅H₂₆O₂ FW: 238 MSD LIB#: 944

CN: 1H-3a,7-methanoazulene-8-methanol, octahydro-6-hydroxy-3,6,8-trimethyl-, (3R-(3 α ,3 β ,6 β ,7 β ,8 α ,8 $\alpha\alpha$))-

Synonyms: 3,12-cedranediol (farnesene numbering)

Source: *J. recurva* wood oil ex J. Oda, Agric. Biol. Chem. 41:201(1977)



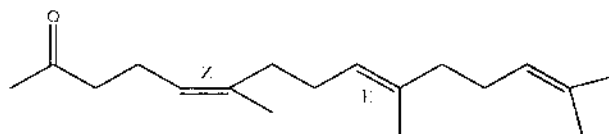
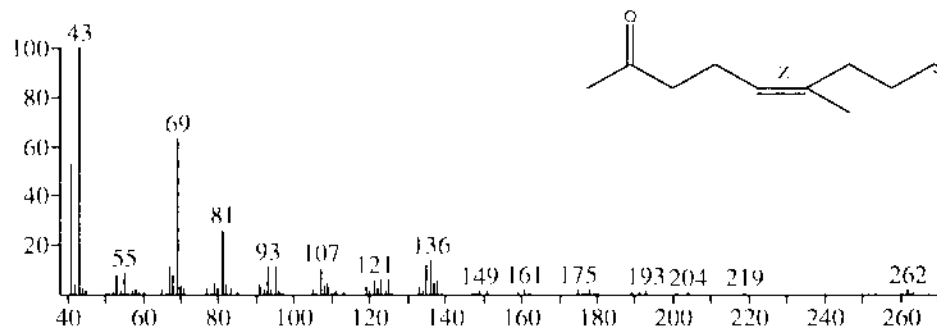
RT: 43.55 AI: 1889 KI: 1889 **Farnesyl acetone <(5Z,9E)->**

CAS#: 1117-51-7 MF: C₁₈H₃₀O FW: 262 MSD LIB#: 2141

CN: 5,9,13-pentadecatrien-2-one, 6,10,14-trimethyl-, (5Z,9E)-

Synonyms: cis, trans-farnesyl acetone

Source: Bedoukian Res.



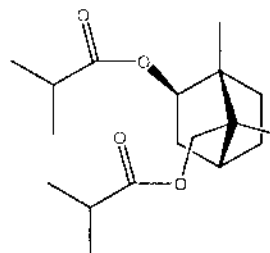
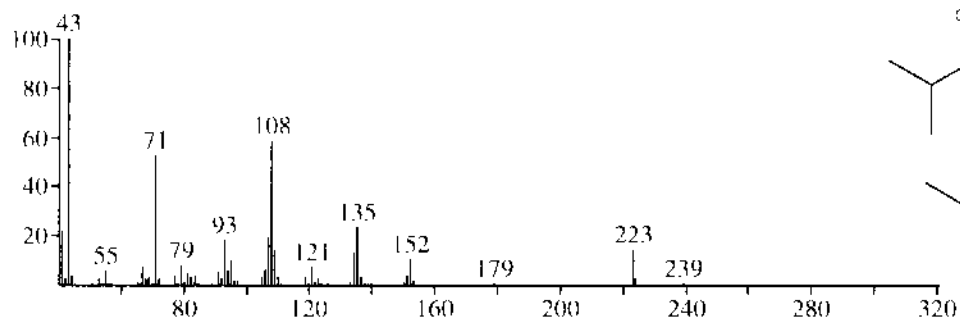
RT: 43.56 AI: 1889 KI: 1890 **Isobornyl isobutanoate <8-isobutyryloxy->**

CAS#: 107783-35-7 MF: C₁₈H₃₀O₄ FW: 310 MSD LIB#: 1452

CN: propanoic acid, 2-methyl-, (1,7-dimethyl-2-(2-methyl-1-oxopropoxy)bicyclo(2.2.1)hept-7-yl)methyl ester, (1R-(exo, syn))-

Synonyms: isoborneol isobutyrate <8-isobutyryloxy->

Source: *Strobilanthus auriculatus* oil ex P. Weyerstahl



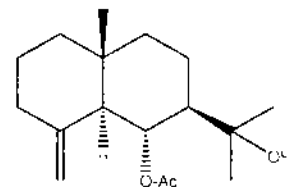
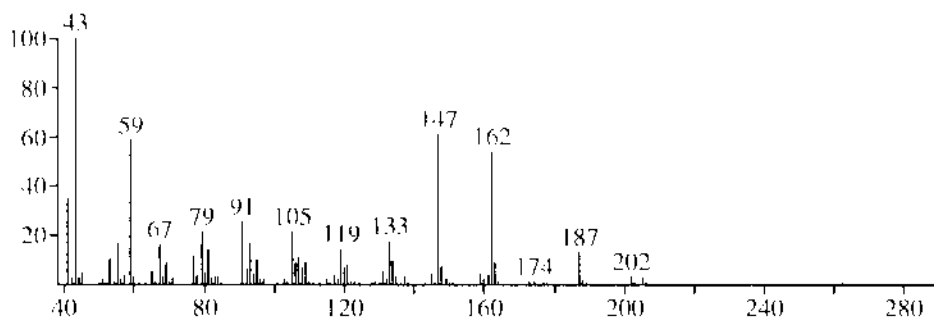
RT: 43.58 AI: 1890 KI: 1890 **Chenopodiol-6-acetate <β>**

CAS#: 000-00-0 MF: C₁₇H₂₈O₃ FW: 280 MSD LIB#: 434

CN: not assigned

Synonyms: none

Source: ref. cpd. ex Vasu Dev



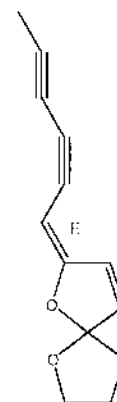
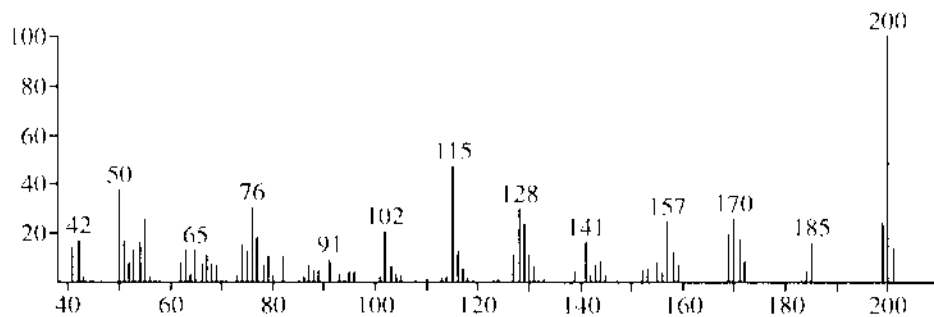
RT: 43.59 AI: 1890 KI: 1890 **Spiroether <(E)>**

CAS#: 50257-98-2 MF: C₁₃H₁₂O₂ FW: 200 MSD LIB#: 1820

CN: 1,6-dioxaspiro[4.4]non-3-ene,2-(2,4-hexadiynylidene)-, (2E)

Synonyms: Tonghaosu (E-)

Source: Chamomile oil, Spain ex K-H Kubeczka



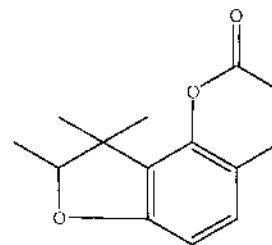
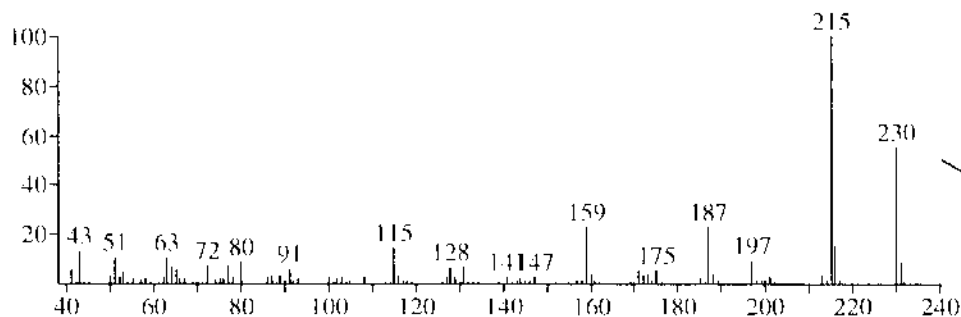
RT: 43.68 AI: 1893 KI: 1893 **Dihydroangelicin <2',3',3'-trimethyl-2',3'->**

CAS#: 94515-05-6 MF: C₁₄H₁₄O₃ FW: 230 MSD LIB#: 1931

CN: 2H-furo[2,3-b]-1-benzopyran-2-one, 8,9-dihydro-8,9,9-trimethyl-

Synonyms: none

Source: Lomatium sp. ex Vasu Dev



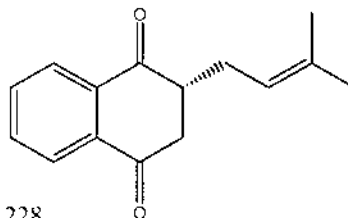
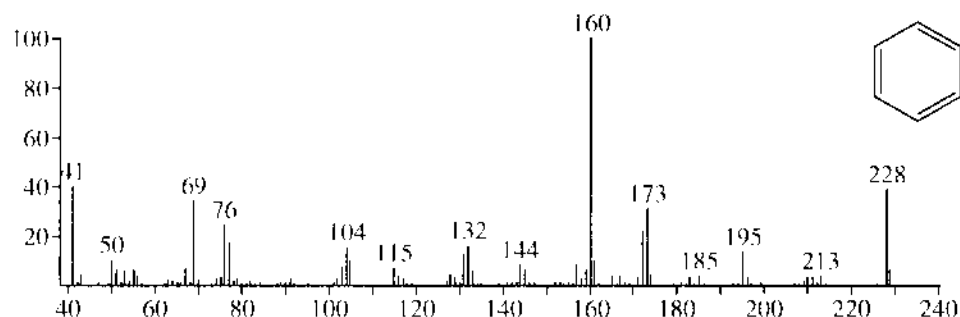
RT: 43.71 AI: 1894 KI: 1894 **Catalponone**

CAS#: 58190-97-9 MF: C₁₅H₁₆O₂ FW: 228 MSD LIB#: 387

CN: 1,4-naphthalenedione, 2,3-dihydro-2-(3-methyl-2-butenyl)-, (R)-

Synonyms: none

Source: Catulpa heartwood oil ex CA McDaniel



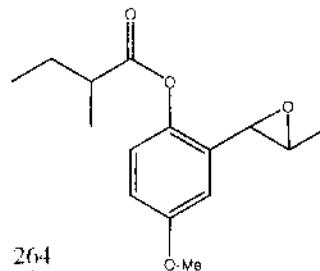
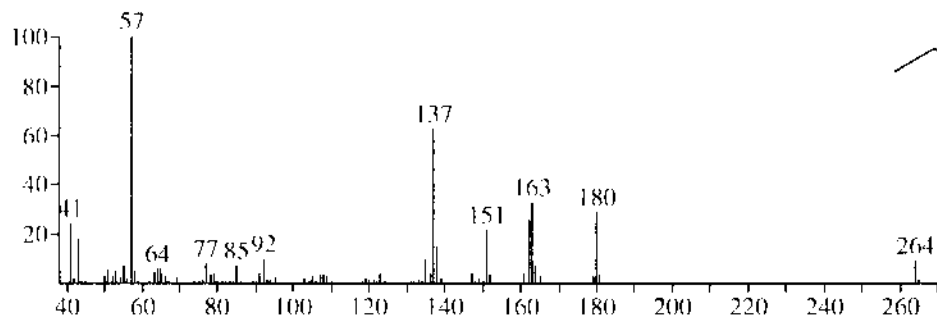
RT: 43.75 AI: 1895 KI: 1895 **Epoxy-pseudoisoeugenyl 2-methylbutyrate**

CAS#: 104283-18-3 MF: C₁₅H₂₀O₄ FW: 264 MSD LIB#: 1824

CN: butanoic acid, 2-methyl-, methoxy(3-methyloxiranyl)phenyl ester

Synonyms: none

Source: *Pimpinella peregrina* root oil ex K-H Kubeczka



RT: 43.79 AI: 1896 KI: 1896 **Rimuene**

CAS#: 1686-67-5 MF: C₂₀H₃₂ FW: 272 MSD LIB#: 1357

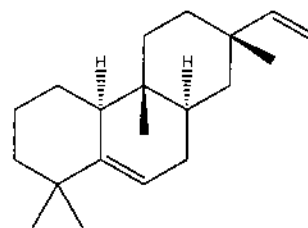
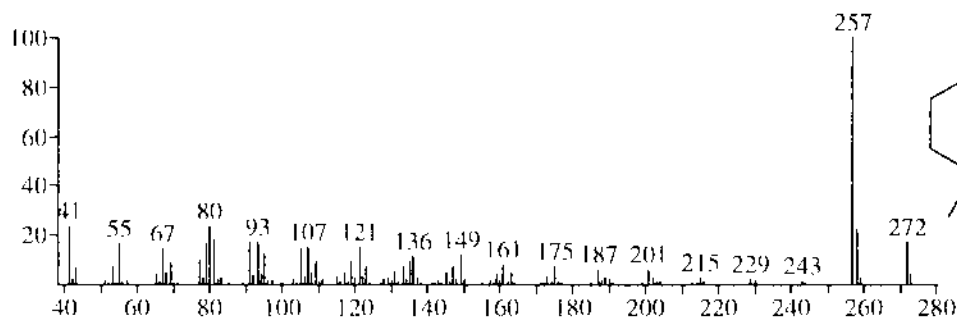
CN: phenanthrene, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,8,8a,9-dodecahydro-1,1,4b,7-tetramethyl-,

(4aS-(4aa,4bβ,7a,8aa))-

Synonyms: rosa-5,15-diene, (13S)

Source: *Dacrydium nausorensense* oil ex JJ Brophy; 4.00% *Thuja occidentalis*.

JEOR 5:279(1993); 3.22% *Fokienia hodginsii*; 0.58% *Hyptis suaveolens*



RT: 43.83 AI: 1897 KI: 1897 **Cedranediol <8S,13->**

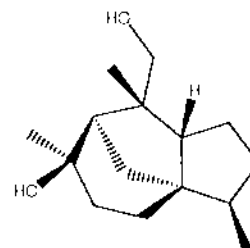
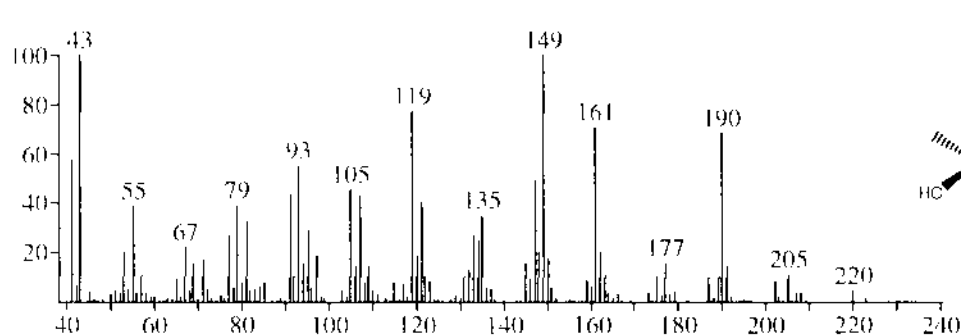
CAS#: 62600-04-8 MF: C₁₅H₂₆O₂ FW: 238 MSD LIB#: 938

CN: 11H-3a,7-methanoazulene-8-methanol, octahydro-6-hydroxy-3,6,8-trimethyl-, (3R,4a,3aβ,6β,7β,8β,8aα)-

Synonyms: none

Source: *Juniperus recurva* wood, MeOH Fraction, ex J Oda.

Agric. Biol. Chem. 41:20(1977)



RT: 43.92 AI: 1900 KI: 1900 **Nonadecane <n->**

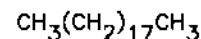
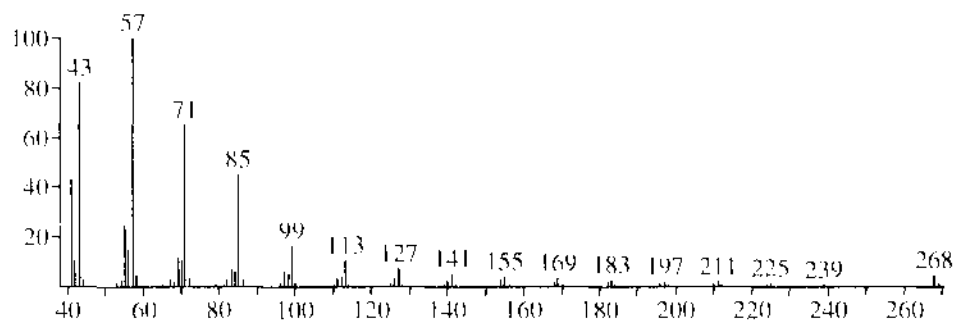
CAS#: 629-92-5 MF: C₁₉H₄₀ FW: 268 MSD LIB#: 99

CN: nonadecane

Synonyms: none

Source: Alltech Assoc.: 11.63% *Rosa odorata*, p. 29, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong (1995); 11.20% *Rosa centifolia*;

1.47% *Pyrus serotina*



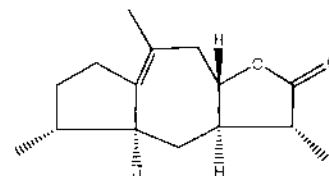
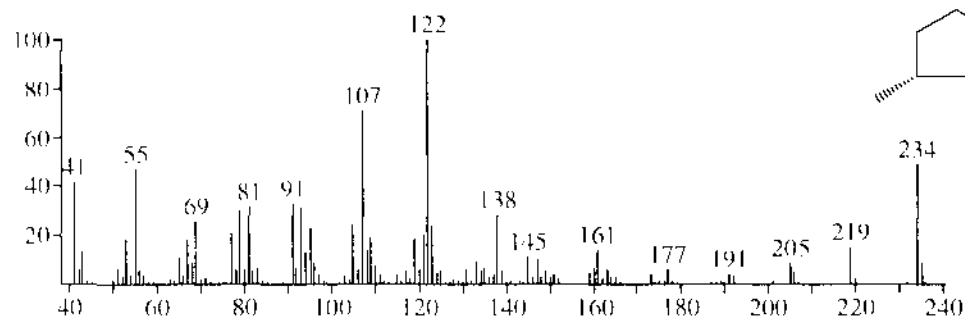
RT: 43.95 AI: 1900 KI: 1900 **Columellarin <dihydro->**

CAS#: 66873-38-9 MF: C₁₅H₂₂O₂ FW: 234 MSD LIB#: 1839

CN: azuleno(6,5-b)furan-2(3H)-one, 3a,4,4a,5,6,7,9,9a-octahydro-3,5,8-trimethyl-, (3R,3aR,4aS,5R,9aS)-

Synonyms: none

Source: *Callitris columinaris* wood oil ex Ian Southwell



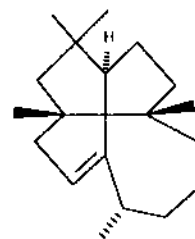
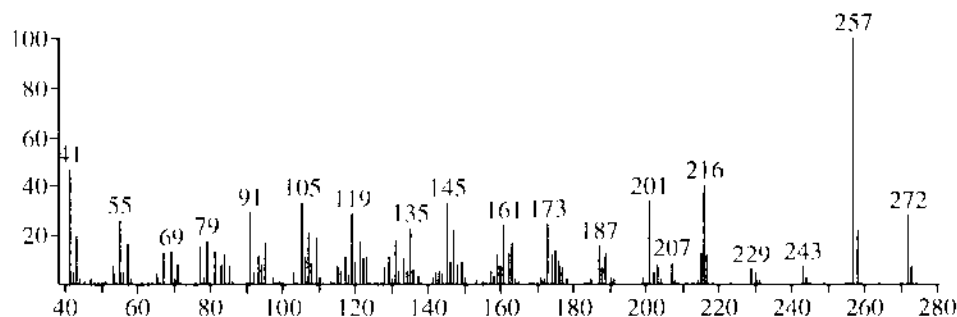
RT: 43.97 AI: 1901 KI: 1901 **Laurenene <epi->**

CAS#: 110455-92-0 MF: C₂₀H₃₂ FW: 272 MSD LJB#: 1333

CN: pentaleno(1,6-cd)azulene, 1,2,2a,3,4,4a,5,7,8,9,10,10a-dodecahydro-3,3,4a,7,10a-pentamethyl-, (2a α ,4a β ,7 α ,10a β ,10bR*)-

Synonyms: none

Source: ref. cpd. ex Don Clark (ex *Podocarpus*)



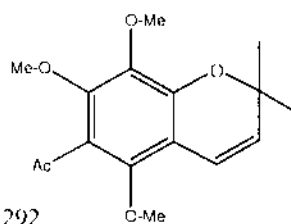
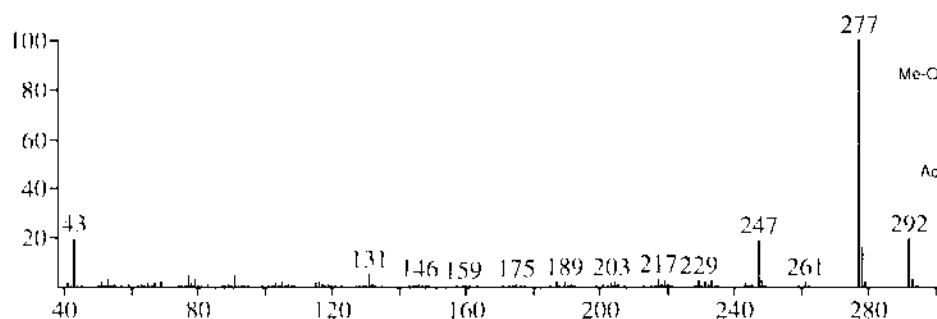
RT: 44.08 AI: 1904 KI: 1904 **Evodione**

CAS#: 482-07-5 MF: C₁₆H₂₀O₅ FW: 292 MSD LJB#: 1849

CN: ethanone, 1-(5,7,8-trimethoxy-2,2-dimethyl-2H-1-benzopyran-6-yl)-

Synonyms: none

Source: *Melicope elleryana* ex JJ Brophy



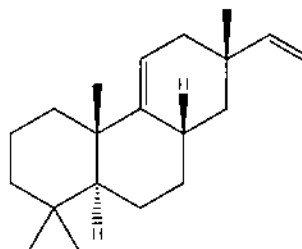
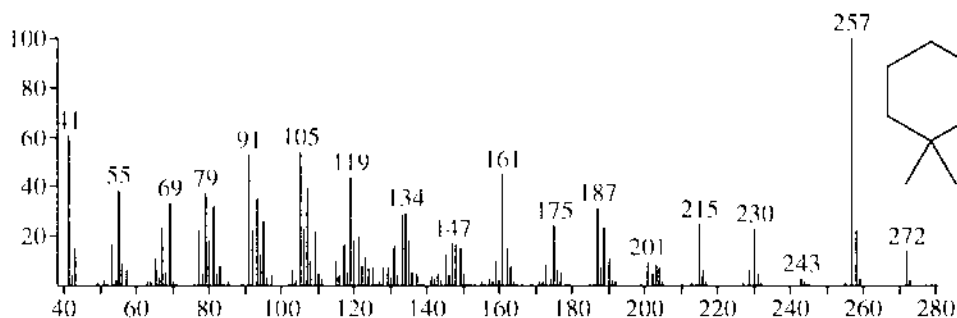
RT: 44.11 AI: 1905 KI: 1905 **Isopimar-9(11),15-diene**

CAS#: 39702-28-8 MF: C₂₀H₃₂ FW: 272 MSD LJB#: 874

CN: phenanthrene, 7-ethenyl-1,2,3,4,4a,6,7,8,8a,9,10,10a-dodecahydro-1,1,4a,7-tetramethyl-, (4aS,7S,8aS,10aS)-

Synonyms: none

Source: ref. cpd. ex Don Clark



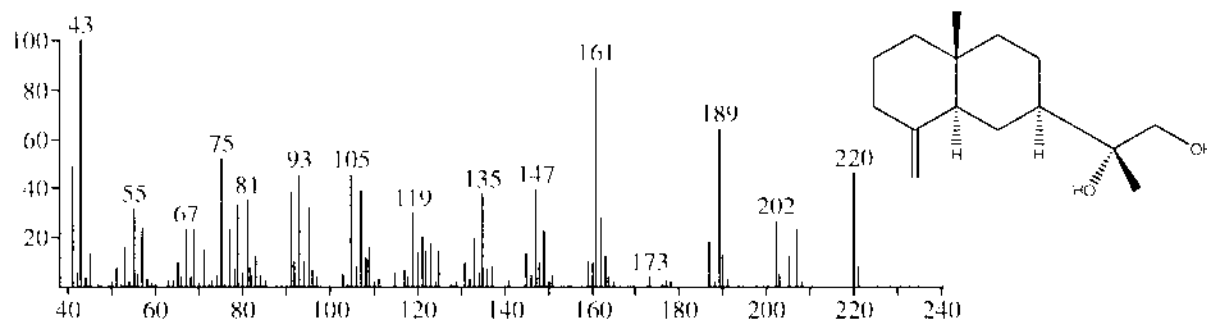
RT: 44.33 AI: 1912 KI: 1912 **Kudtdiol**

CAS#: 70142-90-4 MF: C₁₅H₂₆O₂ FW: 238 MSD LIB#: 1792

CN: 1,2-propanediol, 2-((2R,4aR,8aS)-decahydro-4a-methyl-8-methylene-2-naphthalenyl)-, (2R)-

Synonyms: none

Source: *Chamaecyparis nootkatensis* oil ex Joe Karchesy



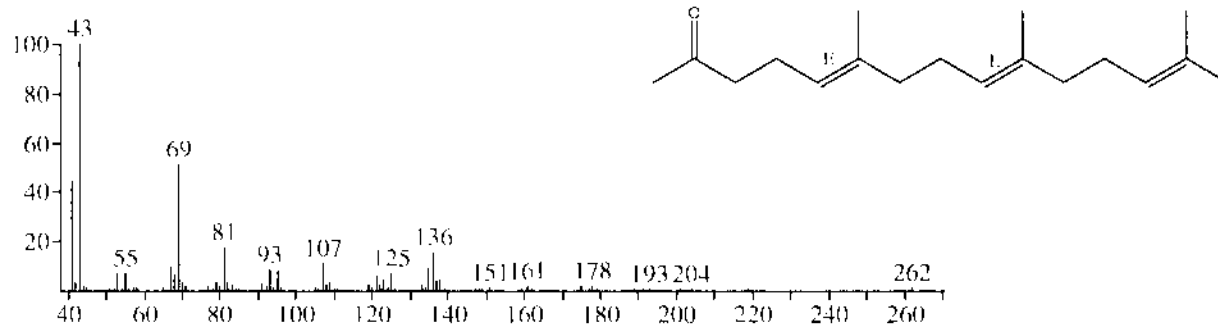
RT: 44.37 AI: 1913 KI: 1913 **Farnesyl acetone <(5E,9E)->**

CAS#: 1117-52-8 MF: C₁₈H₃₀O FW: 262 MSD LIB#: 2142

CN: 5,9,13-pentadecatrien-2-one, 6,10,14-trimethyl-, (5E,9E)-

Synonyms: trans, trans-farnesyl acetone

Source: Bedoukian Res.



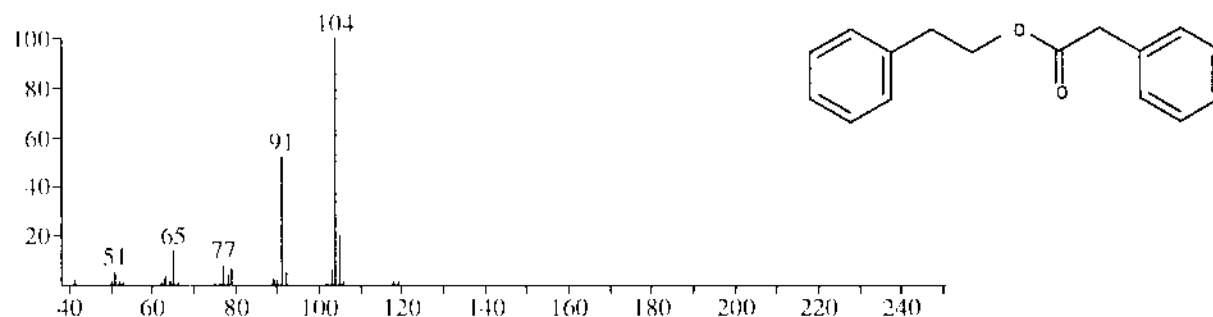
RT: 44.38 AI: 1913 KI: 1913 **Phenyl ethyl phenyl acetate <2->**

CAS#: 102-20-5 MF: C₁₆H₁₆O₂ FW: 240 MSD LIB#: 1279

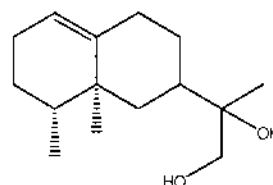
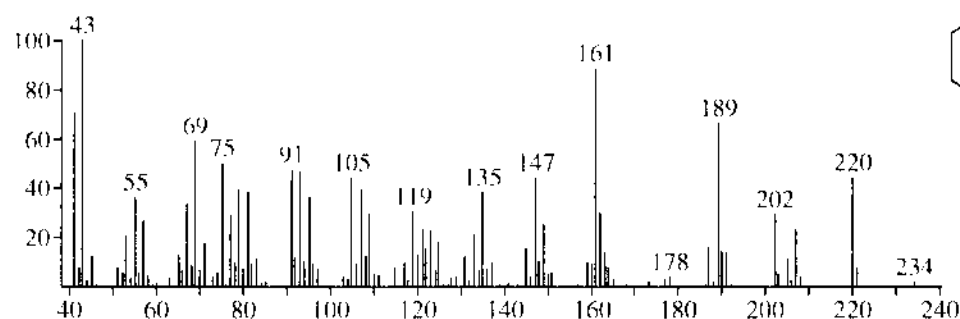
CN: benzoic acid, 2-phenylethyl ester

Synonyms: phenylethyl phenyl acetate, β-: benzyl carbinyl α toluate

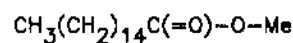
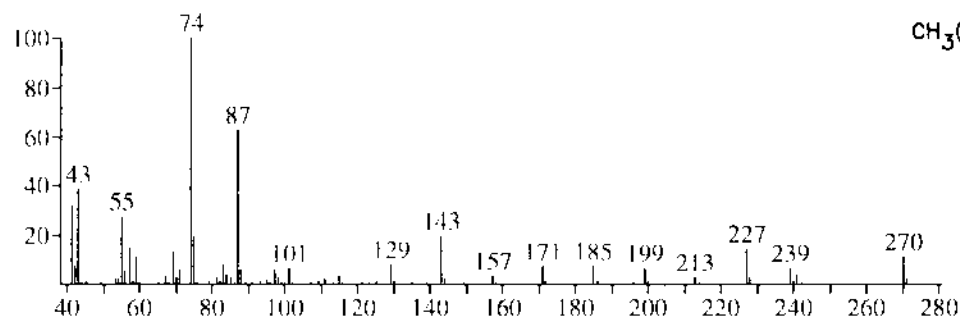
Source: Givaudan ex Art Tucker



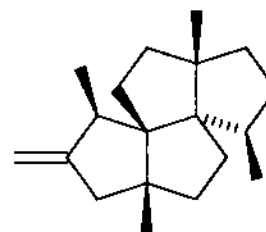
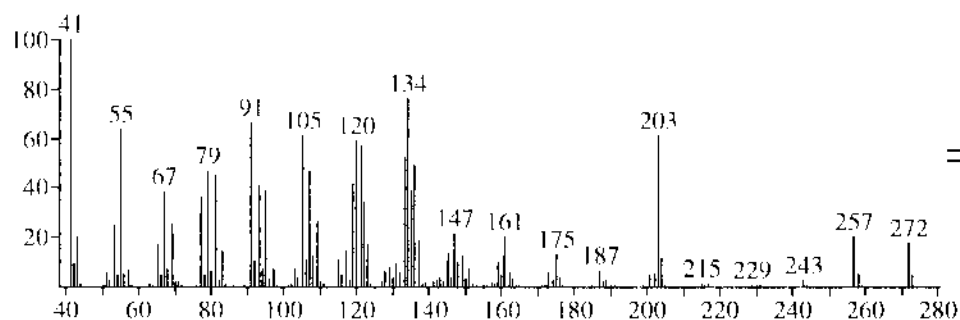
RT: 44.40 AI: 1914 KI: 1914 **Valencene <11,12-dihydroxy->**
 CAS#: 000-00-0 MF: C₁₅H₂₆O₂ FW: 238 MSD LIB#: 1774
 CN: not assigned
 Synonyms: none
 Source: *Chamaecyparis nootkatensis* wood oil ex Joe Karchesy



RT: 44.64 AI: 1921 KI: 1921 **Methyl hexadecanoate**
 CAS#: 112-39-0 MF: C₁₇H₃₄O₂ FW: 270 MSD LIB#: 955
 CN: hexadecanoic acid, methyl ester
 Synonyms: methyl palmitate
 Source: Jasmin absolute ex Firmenich ex AF Thomas



RT: 44.68 AI: 1922 KI: 1922 **Totarene**
 CAS#: 000-00-0 MF: C₂₀H₃₂ FW: 272 MSD LIB#: 1334
 CN: not assigned
 Synonyms: none
 Source: *Podocarpus totara* oil ex Don Clarke, New Zealand



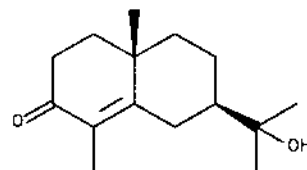
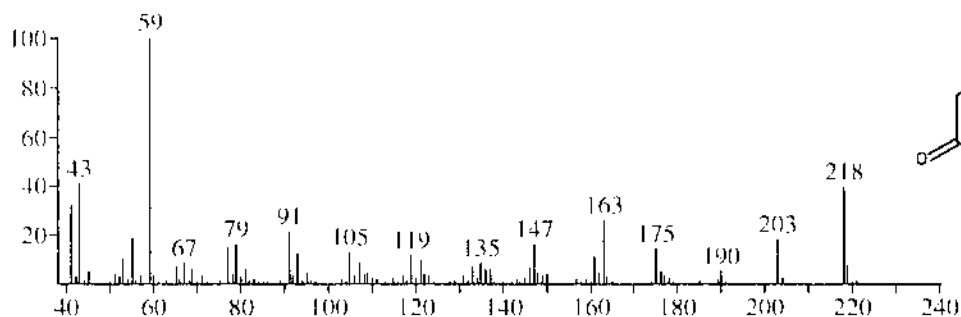
RT: 44.84 AI: 1926 KI: 1927 **Carissone**

CAS#: 473-10-9 MF: C₁₅H₂₄O₂ FW: 236 MSD LIB#: 356

CN: 2(3H)-naphthalenone, 4,4a,5,6,7,8-hexahydro-7-(1-hydroxy-1-methylethyl)-1,4a-dimethyl-, (4aS-cis)-

Synonyms: Eudesm-4-en-3-one, <11-hydroxy->

Source: ref. cpd. ex E. von Rudloff



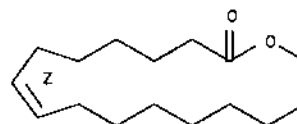
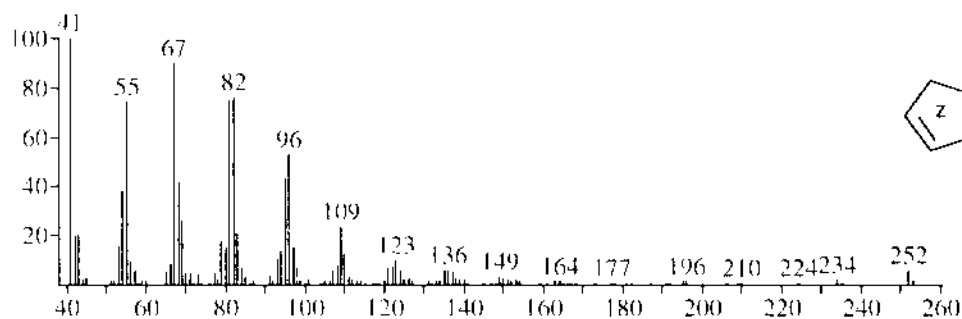
RT: 44.92 AI: 1929 KI: 1930 **Musk ambrette**

CAS#: 123-69-3 MF: C₁₆H₂₈O₂ FW: 252 MSD LIB#: 1114

CN: oxacycloheptadec-8-en-2-one, (Z)-

Synonyms: ambrettolide; musk natural

Source: Pfaltz & Bauer ex A. Tucker



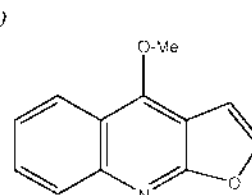
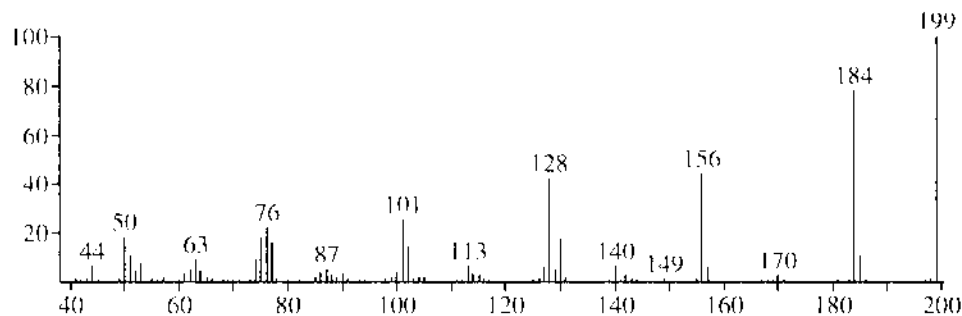
RT: 44.97 AI: 1930 KI: 1931 **Dictamine**

CAS#: 484-29-7 MF: C₁₂H₉N O₂ FW: 199 MSD LIB#: 147

CN: dictamine

Synonyms: furo(2,3-b)quinoline, 4-methoxy-; diktaminin

Source: *Amyris diatrypa* leaves ex Tom Zanoni, Dom. Rep.



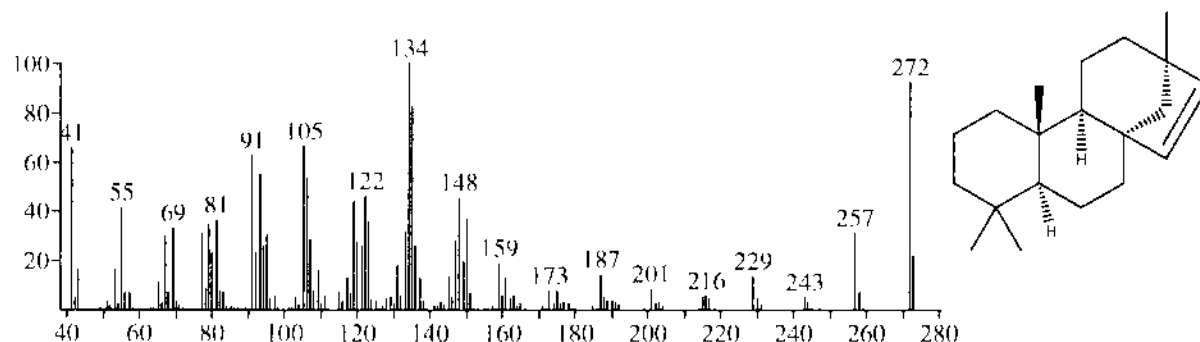
RT: 44.98 AI: 1931 KI: 1931 **Beyerene**

CAS#: 2359-73-1 MF: C₂₀H₃₂ FW: 272 MSD LIB#: 1335

CN: 17-norkaur-15-ene, 13-methyl-, (5 α ,9 α ,10 β)-

Synonyms: stachene; hibaene

Source: *Podocarpus spicatus* ex Rex Weavers; 8.00% *Thuja occidentalis*, JEOR 5:279(1993)



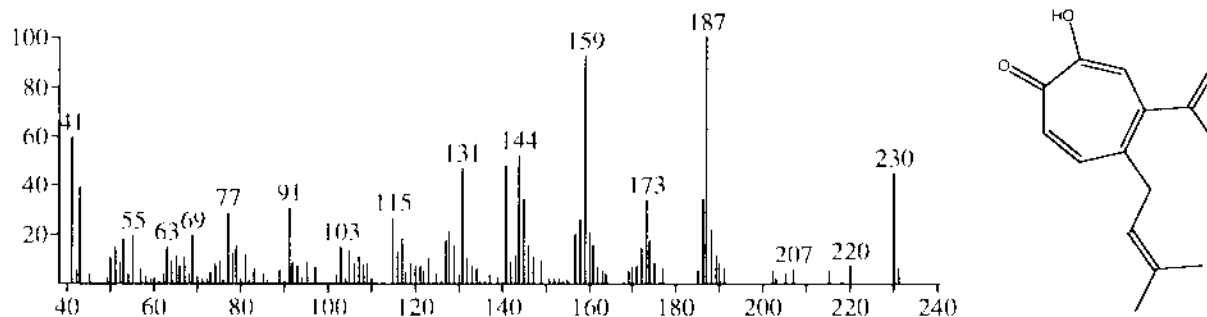
RT: 44.98 AI: 1931 KI: 1931 **Procerin**

CAS#: 552-96-5 MF: C₁₅H₁₈O₂ FW: 230 MSD LIB#: 1775

CN: 2,4,6-cycloheptatrien-1-one, 2-hydroxy-5-(3-methyl-2-butenyl-4-(1-methylethenyl)-

Synonyms: none

Source: *Chamaecyparis nootkatensis* wood oil ex Joe Karchesy



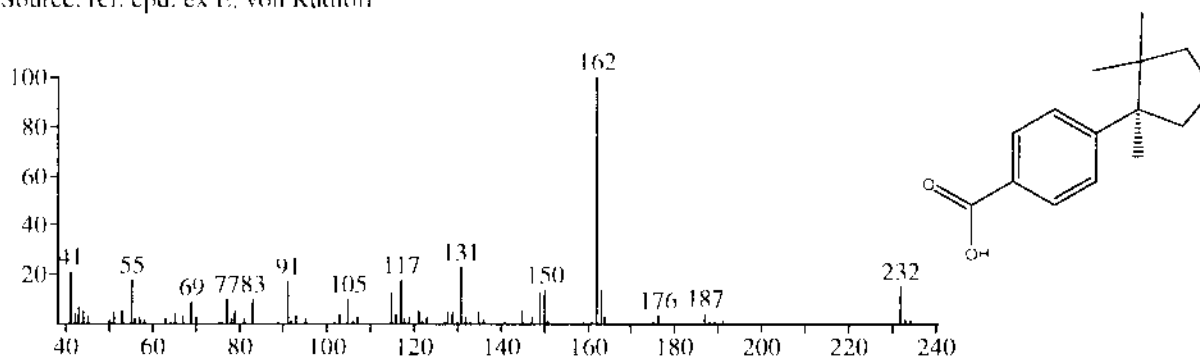
RT: 45.02 AI: 1932 KI: 1933 **Cuparenic acid**

CAS#: 509-02-4 MF: C₁₅H₂₀O₂ FW: 232 MSD LIB#: 1751

CN: benzoic acid, 4-((1R)-1,2,2-trimethylcyclopentyl)-

Synonyms: none

Source: ref. epd. ex E. von Rudloff



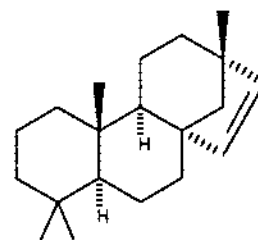
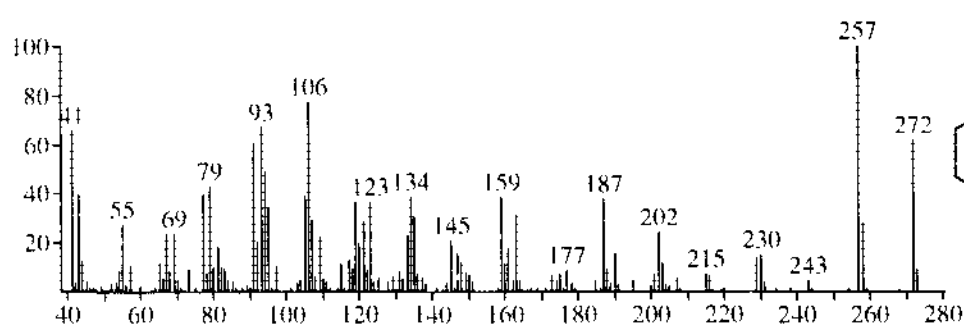
RT: 45.05 AI: 1933 KI: 1934 **Isohibaene**

CAS#: 5975-53-1 MF: C₂₀H₃₂ FW: 272 MSD LIB#: 425

CN: 17-norkaur-15-ene, 13-methyl-, (5 α ,8 β ,9 α ,10 β ,13 β)-

Synonyms: kaur-15-ene, <13-methyl-17-nor->

Source: *Chamaecyparis nootkatensis* leaf oil ex E. von Rudloff



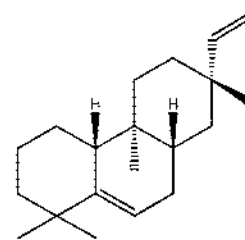
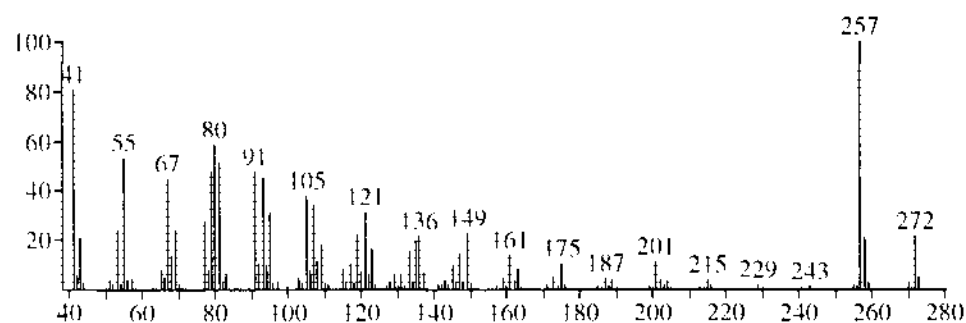
RT: 45.06 AI: 1933 KI: 1934 **Rosa-5,15-diene <ent->**

CAS#: 78821-30-4 MF: C₂₀H₃₂ FW: 272 MSD LIB#: 1361

CN: phenanthrene, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,8,8a,9-dodecahydro-1,1,4b,7-tetramethyl-, (4aR-(4a α ,4b β ,7 β ,8a α))-

Synonyms: rosadiene

Source: ref. cpd. ex S. Nagahama, Japan



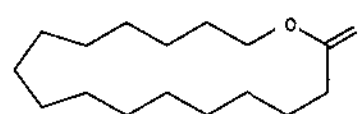
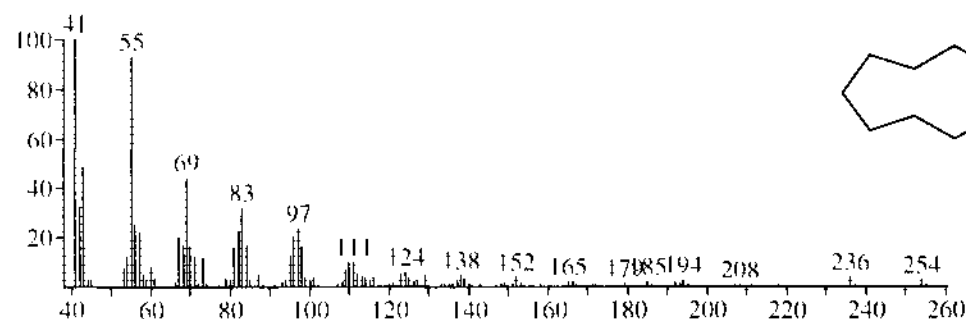
RT: 45.07 AI: 1933 KI: 1934 **Cyclohexadecanolide**

CAS#: 109-29-5 MF: C₁₆H₃₀O₂ FW: 254 MSD LIB#: 797

CN: oxacycloheptadecan-2-one

Synonyms: juniperic acid lactone

Source: HF ex Jian-Qin Cu, Kunming



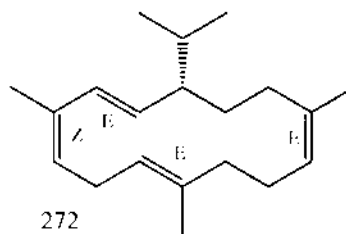
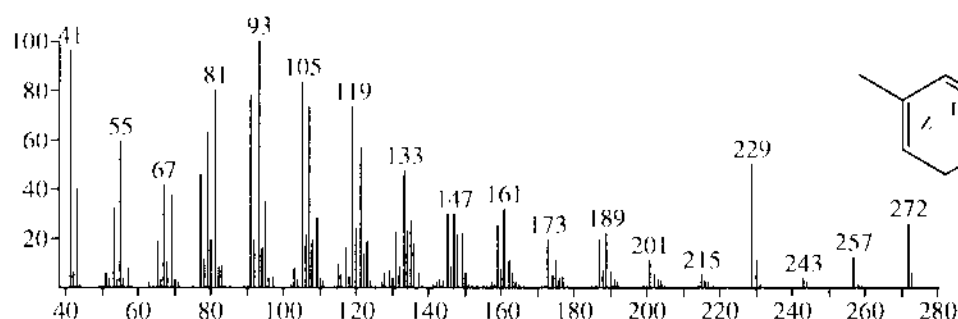
RT: 45.21 AI: 1937 KI: 1938 **Cembrene**

CAS#: 1898-13-1 MF: C₂₀H₃₂ FW: 272 MSD LIB#: 424

CN: 1,3,6,10-cyclotetradecatetraene, 3,7,11-trimethyl-14-(1-methylethyl)-, (S-(E,Z,E,E))-

Synonyms: thunbergene

Source: ref. epd. ex Xu Ji-Qing, Changchun



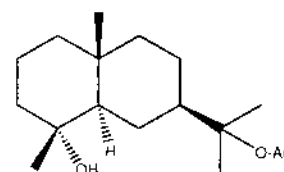
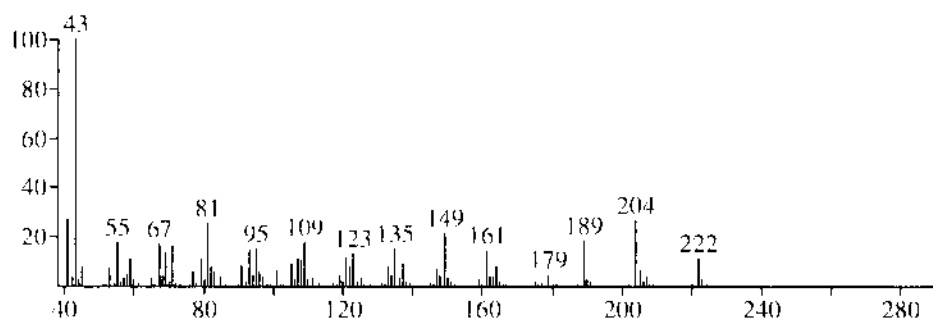
RT: 45.24 AI: 1938 KI: 1939 **Acetoxyesdesman-4- α -ol <11>**

CAS#: 67996-33-2 MF: C₁₇H₃₀O₃ FW: 282 MSD LIB#: 496

CN: 2-naphthalenemethanol, decahydro-8-hydroxy- $\alpha,\alpha,4\alpha,8$ -tetramethyl-, α -acetate, (2R,4aR,8R,8aR)-

Synonyms: none

Source: *Cryptomeria japonica* wood oil ex S Nagahama



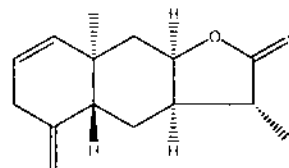
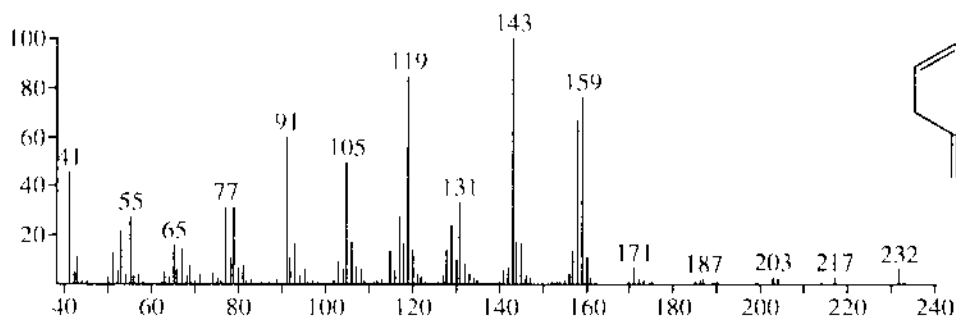
RT: 45.34 AI: 1941 KI: 1942 **Callitrisin**

CAS#: 66964-62-3 MF: C₁₅H₂₀O₂ FW: 232 MSD LIB#: 1805

CN: naphtho(2,3-b)furan-2(3H)-one, 3a,4,4a,5,6,8a,9,9a-octahydro-3,8a-dimethyl-5-methylene-, (3R,3aR,4aR,8aR,9aR)-

Synonyms: none

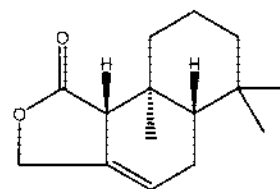
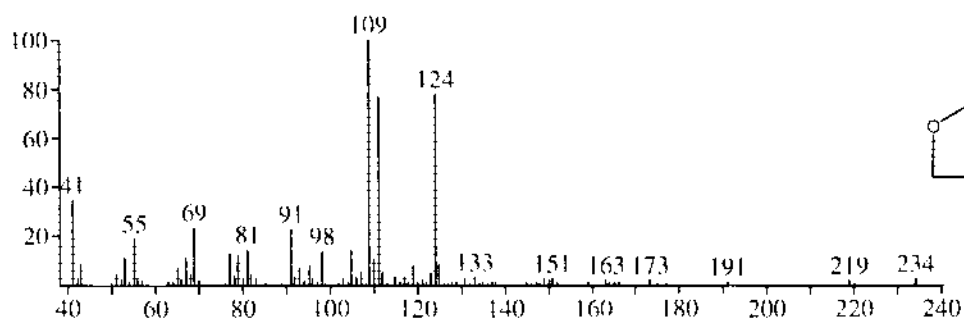
Source: *Callitris* sp. ex Ian Southwell



RT: 45.34 AI: 1941 KE: 1942 **Drimenin**CAS#: 2326-89-8 MF: C₁₅H₂₂O₂ FW: 234 MSD LIB#: 1831

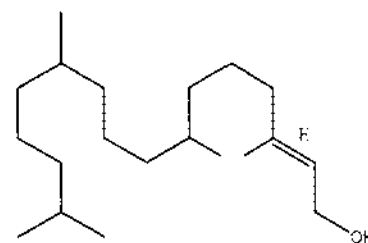
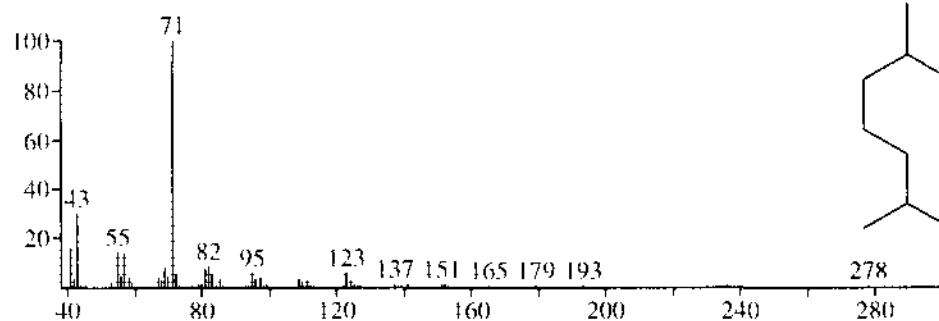
CN: naphtho(1,2-c)furan-1(3H)-one, 5,5a,6,7,8,9,9a,9b-octahydro-6,6,9a-trimethyl- (5aS,9aS, 9bR)-

Synonyms: none

Source: *Cinnamodendron corticosum*, ex Helen Jacobs, JamaicaRT: 45.37 AI: 1942 KE: 1943 **Phytol**CAS#: 150-86-7 MF: C₂₀H₄₀O FW: 296 MSD LIB#: 956

CN: 2-hexadecen-1-ol, 3,7,11,15-tetramethyl-, (R-(R*),R*-(E))-

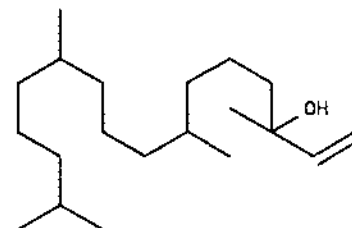
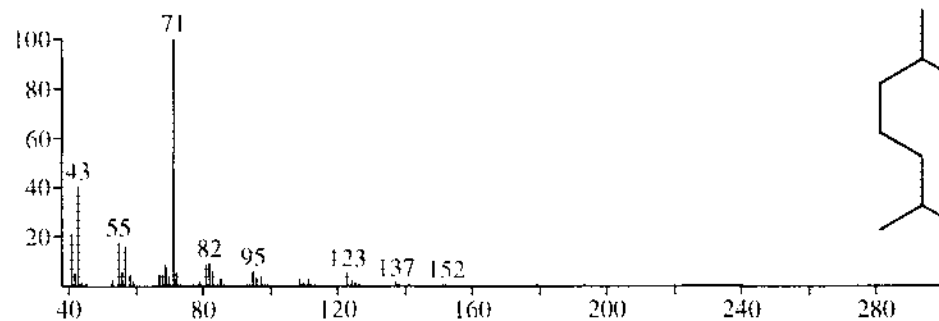
Synonyms: trans-phytol; phytol(E)-

Source: Jasmin absolute ex Firmenich ex AF Thomas; 41.40% *Jasminum officinale*FEJ 1:115(1986); 12.60% *Zingiber zerumbet* (leaf); 3.50% *Buddleia salviifolia*RT: 45.52 AI: 1946 KE: 1947 **Isophytol**CAS#: 505-32-8 MF: C₂₀H₄₀O FW: 296 MSD LIB#: 873

CN: 1-hexadecen-3-ol, 3,7,11,15-tetramethyl-

Synonyms: phytol <iso->

Source: Givaudan ex Jian-Qin Cu, Kunming



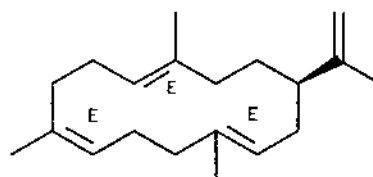
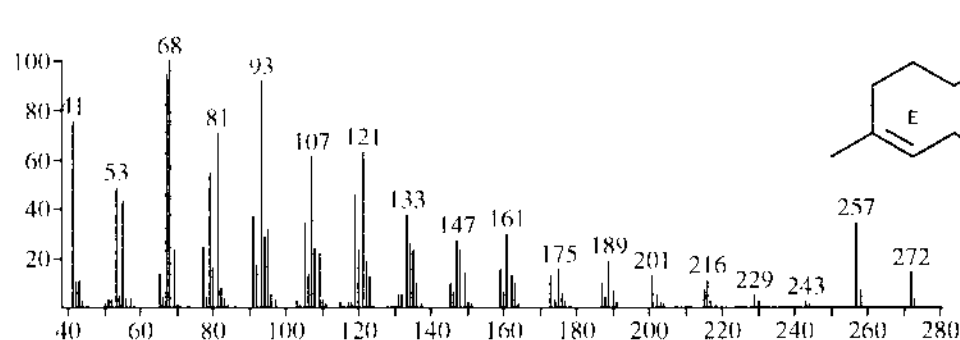
RT: 45.55 AI: 1947 KI: 1948 **Cembrene A <(3E)->**

CAS#: 31570-39-5 MF: C₂₀H₃₂ FW: 272 MSD LIB#: 1464

CN: 1,5,9-cyclotetradecatriene, 1,5,9-trimethyl-12-(1-methylethenyl)-, (R-(E,E,E))-

Synonyms: cembrene, neo-

Source: Cubitermes (termites) ex GD Prestwich



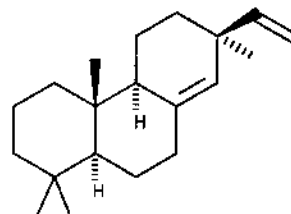
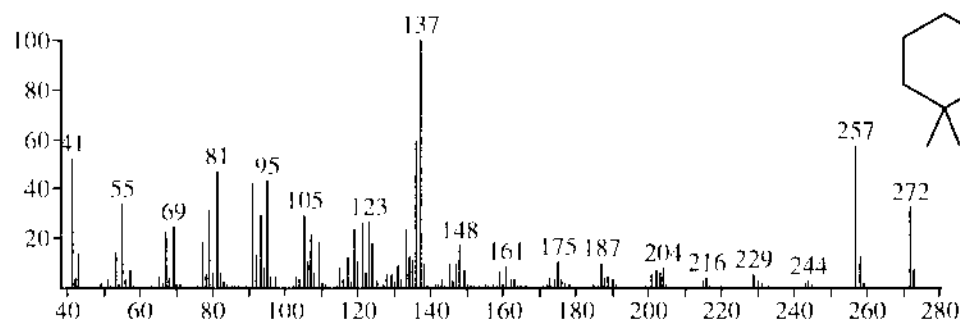
RT: 45.59 AI: 1948 KI: 1949 **Pimaradiene**

CAS#: 1686-61-9 MF: C₂₀H₃₂ FW: 272 MSD LIB#: 620

CN: phenanthrene, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,9,10,10a-dodecahydro-1,1,4a,7-tetramethyl-, (4aS-(4aα,4bβ,7α,10aβ))-

Synonyms: pimara-8,14-diene; pimara-8(14),15-diene

Source: ref. cpd. ex Don Clark



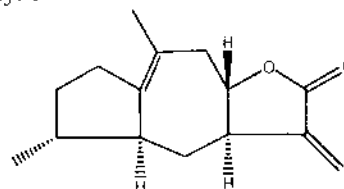
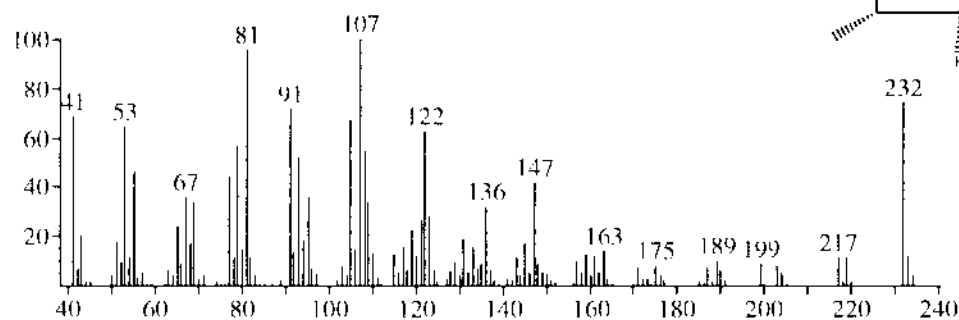
RT: 45.70 AI: 1952 KI: 1953 **Columellarin**

CAS#: 66873-37-8 MF: C₁₅H₂₀O₂ FW: 232 MSD LIB#: 1840

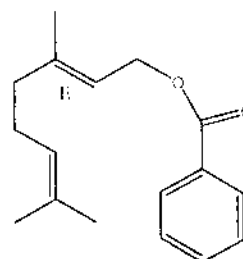
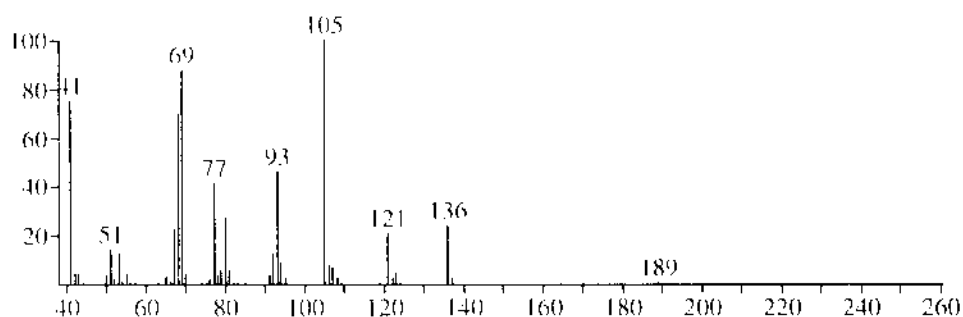
CN: azuleno(6,5-b)furan-2(3H)-one, 3a,4,4a,5,6,7,9,9a-octahydro-5,8-dimethyl-3-methylene-, (3aR,4aS,5R,9aS)-

Synonyms: none

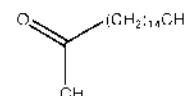
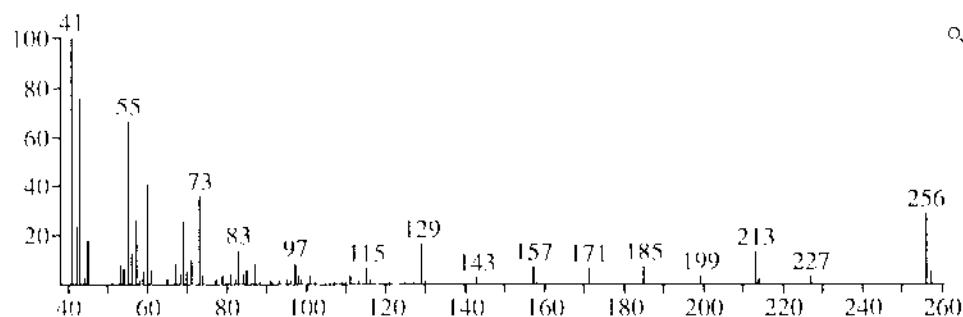
Source: *Callitris columinaris* wood oil ex Ian Southwell



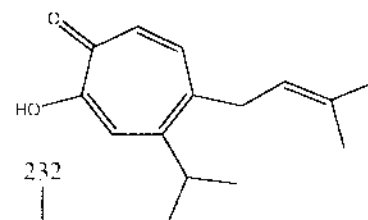
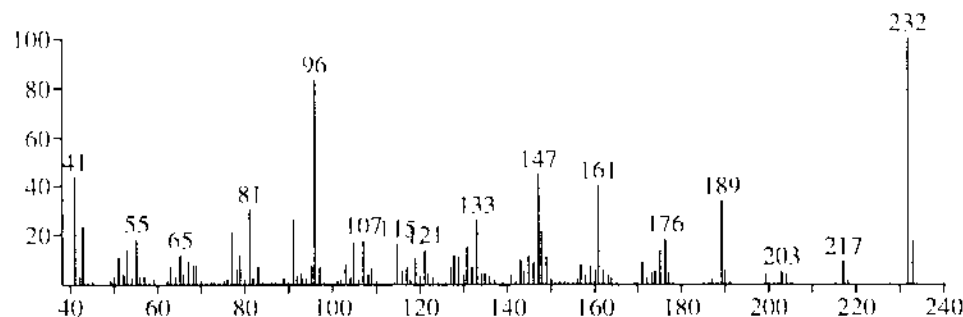
RT: 45.92 AI: 1958 KI: 1959 **Geranyl benzoate**
 CAS#: 94-84-4 MF: C₁₇H₂₂O₂ FW: 258 MSD LIB#: 2198
 CN: 2,6-octadien-1-ol, 3,7-dimethyl-, benzoate, (2E)-
 Synonyms: geraniol benzoate
 Source: Bedoukian Res.



RT: 45.95 AI: 1959 KI: 1960 **Hexadecanoic acid**
 CAS#: 57-10-3 MF: C₁₆H₃₂O₂ FW: 256 MSD LIB#: 1742
 CN: n hexadecanoic acid
 Synonyms: none
 Source: ref. cpd. ex E. von Rudloff; 24.00% *Spartium junceum*,
 p. 325, in: Rivista Ital. EPPOS(1992); 22.50% *Rheum palmatum*;
 20.40% *Averrhoa bilimbi* (fruit)



RT: 45.95 AI: 1959 KI: 1960 **Nootkatin**
 CAS#: 4431-03-2 MF: C₁₅H₂₀O₂ FW: 232 MSD LIB#: 1172
 CN: 1,4,6-cycloheptatrien-1-one, 2-hydroxy-5-(3-methyl-2-butenyl)-4-(1-methylethyl)
 Synonyms: none
 Source: ref. cpd. ex E. von Rudloff



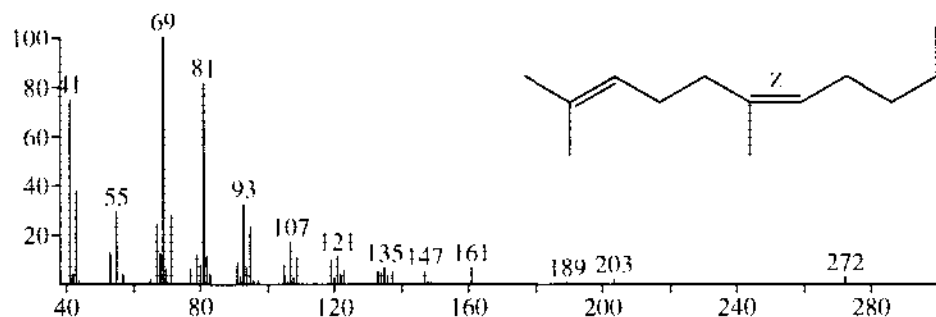
RT: 45.98 AI: 1960 KI: 1961 **Geranyl linalool <(Z,Z)->**

CAS#: 000-00-0 MF: C₂₀H₃₄O FW: 290 MSD LIB#: 1962

CN: 1,6,10,14-hexadecatetraen-3-ol, 3,7,11,15-tetramethyl-, (6Z,10Z)-

Synonyms: none

Source: Bedoukian Res. ex JJ Brophy



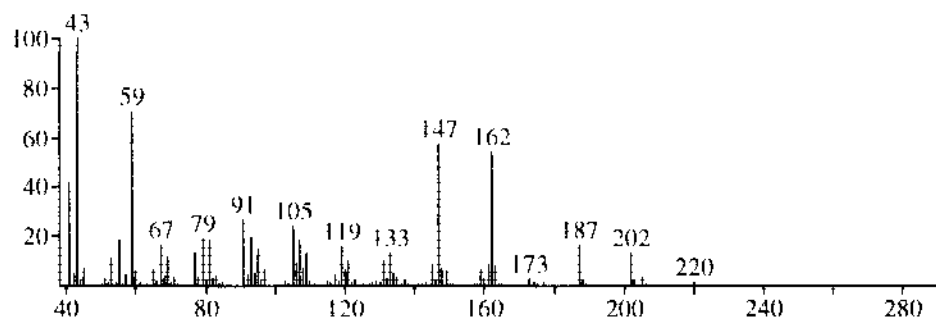
RT: 45.99 AI: 1960 KI: 1961 **Chenopodiol-6-acetate <α->**

CAS#: 67996-34-3 MF: C₁₇H₂₈O₃ FW: 280 MSD LIB#: 433

CN: 2-naphthalenemethanol, 1-(acetyloxy)-1,2,3,4,4a,5,6,8a-octahydro-α,α,4a,8-tetramethyl-, (1R-(1α,2β,4αβ,8αα))-

Synonyms: none

Source: ref. cpd. ex Vasu Dev



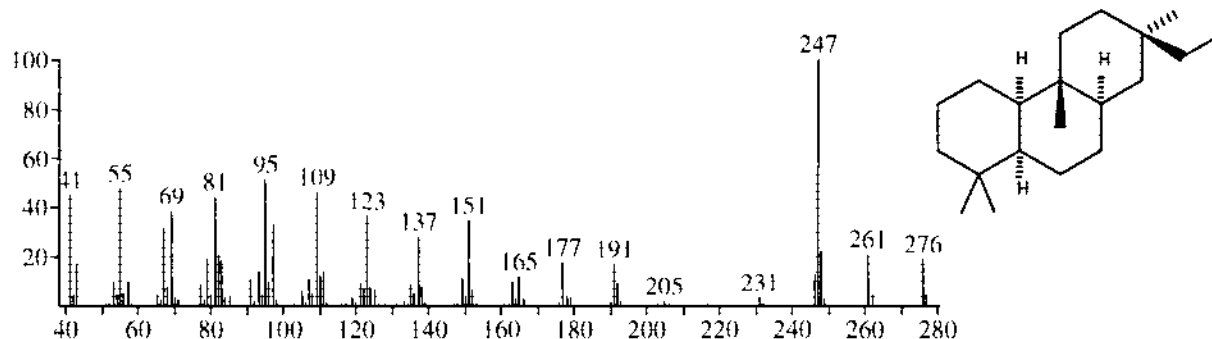
RT: 45.99 AI: 1960 KI: 1961 **Rimuene <tetrahydro->**

CAS#: 6812-82-4 MF: C₂₀H₃₆ FW: 276 MSD LIB#: 1358

CN: phenanthrene, 7-ethyltetradecaahydro-1,1,4b,7-tetramethyl-, (4aR-(4aα,4bβ,7β,8aα,10aα))-

Synonyms: rosane

Source: ref. cpd. ex Don Clark



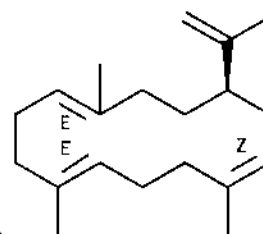
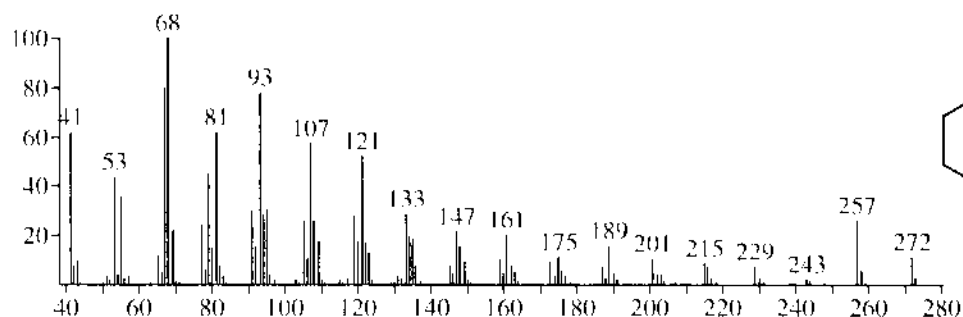
RT: 46.16 AI: 1965 KI: 1966 **Cembrene A <(3Z)->**

CAS#: 71213-92-8 MF: C₂₀H₃₂ FW: 272 MSD LIB#: 1465

CN: 1,5,9-cyclotetradecatriene, 1,5,9-trimethyl-12-(1-methylethenyl)-, (R-(Z,E,E))-

Synonyms: none

Source: Cubitermes(termites) ex GD Prestwich



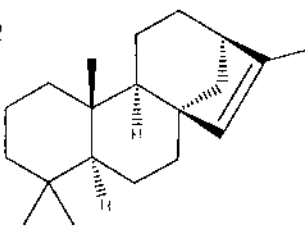
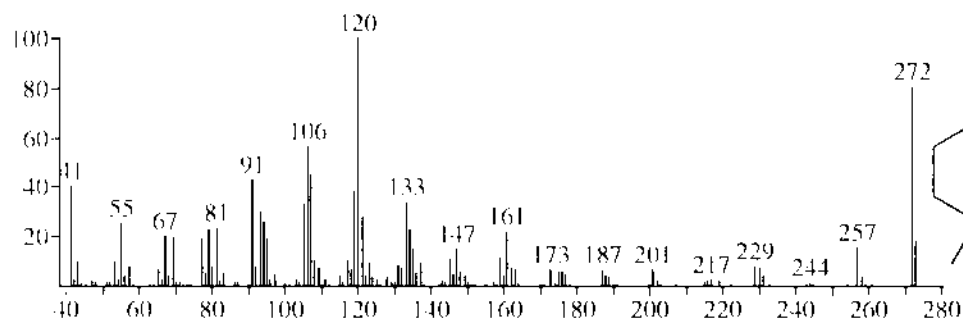
RT: 46.18 AI: 1966 KI: 1967 **Isophyllocladene**

CAS#: 511-85-3 MF: C₂₀H₃₂ FW: 272 MSD LIB#: 549

CN: kaur-15-ene, (5 α ,9 α ,10 β)-

Synonyms: none

Source: *Dacrydium biforme* oil ex AR Hayman, Phytochem, 25:649(1986)



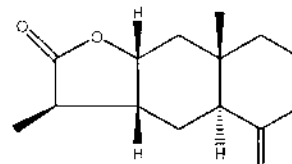
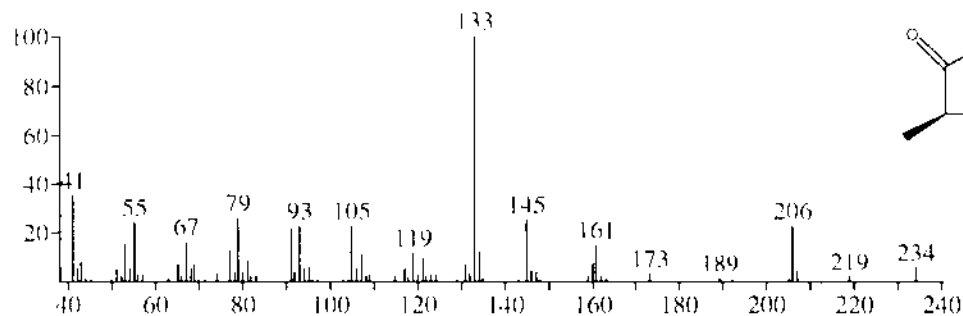
RT: 46.25 AI: 1968 KI: 1969 **Callistrisin <dihydro->**

CAS#: 72523-74-1 MF: C₁₅H₂₂O₂ FW: 234 MSD LIB#: 1807

CN: naphtho(2,3-b)furan-2(3H)-one, decahydro-3,8a-dimethyl-5-methylene-, (3R,3aR,4aR,8aS,9aR)-

Synonyms: dihydrocallistrisin

Source: Callitris sp. ex Ian Southwell



RT: 46.26 AI: 1968 KI: 1969 **Sandaracopimara-8(14),15-diene**

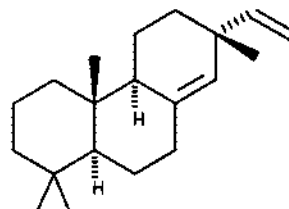
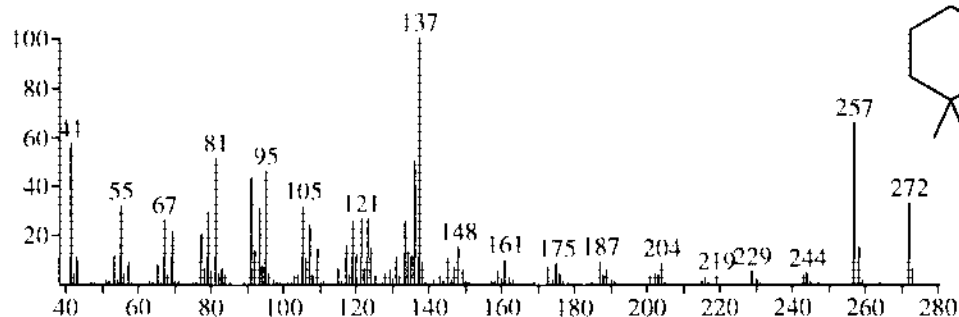
CAS#: 1686-56-2 MF: C₂₀H₃₂ FW: 272 MSD LIB#: 1397

CN: phenanthrene, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,9,10,10a-dodecahydro-1,1,4a,7-tetramethyl-, (4aS-(4a α ,4b β ,7 β ,10a β))-

Synonyms: podocarp-8(14)-ene, 13 β -methyl-13-vinyl-, 13-isopimaradiene; sandaracopimaradiene

Source: ref. cpd. ex Don Clark; 1.36% *Cupressus sempervirens*, Intl. Cong. Oils,

Kyoto, #112(1977); 0.01% *Sequoiadendron giganteum*



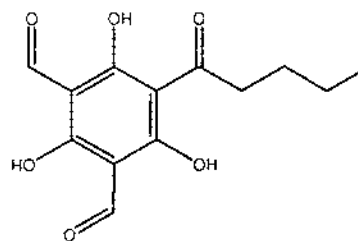
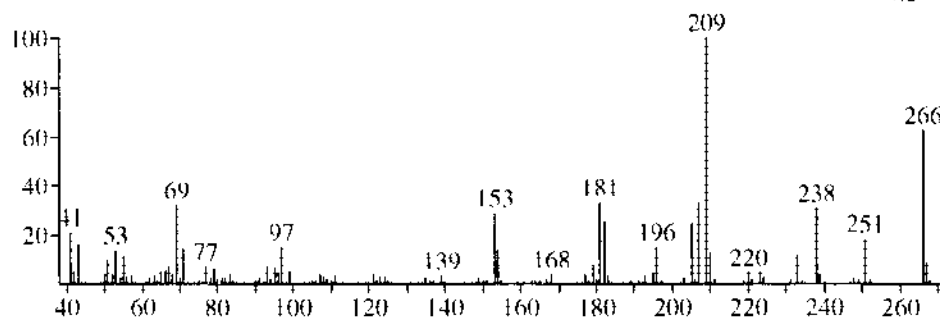
RT: 46.30 AI: 1969 KI: 1970 **Jensenone**

CAS#: 96573-43-2 MF: C₁₃H₁₄O₆ FW: 266 MSD LIB#: 1563

CN: 1,3-benzenedicarboxaldehyde, 2,4,6-trihydroxy-5-(3-methyl-1-oxobutyl)-

Synonyms: none

Source: ref. cpd. ex JJ Brophy



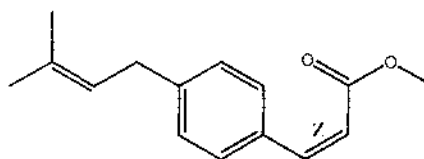
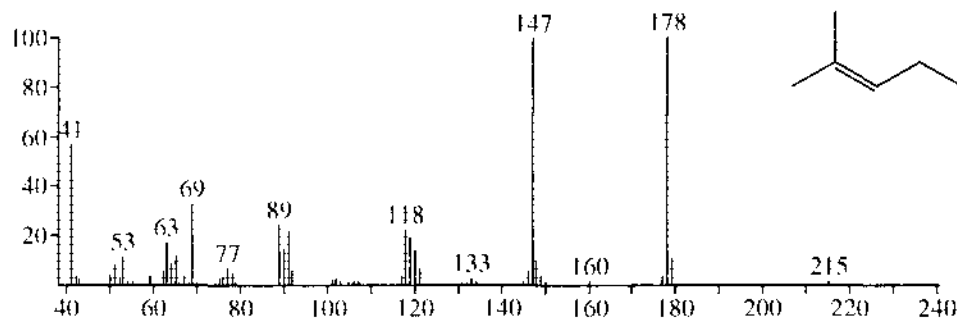
RT: 46.34 AI: 1970 KI: 1971 **Isoprenyl cinnamate <(Z)-methyl->**

CAS#: 000-00-0 MF: C₁₅H₁₈O₂ FW: 230 MSD LIB#: 1672

CN: not assigned

Synonyms: none

Source: *Eriostemon banksii* oil ex JJ Brophy



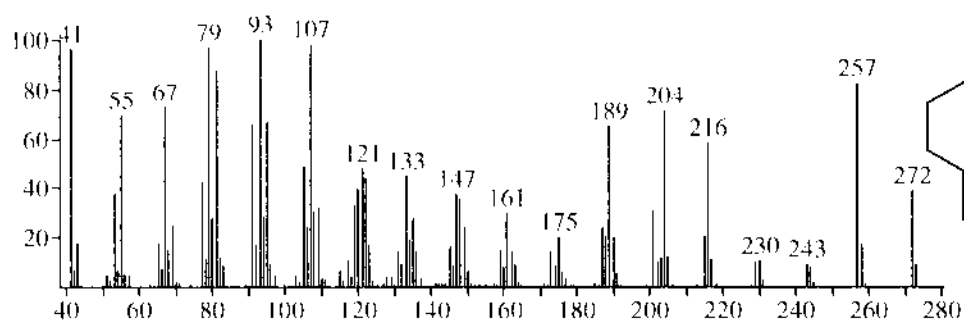
RT: 46.42 AI: 1973 KI: 1974 **Dolabradiene**

CAS#: 3650-13-3 MF: C₂₀H₃₂ FW: 272 MSD LIB#: 628

CN: phenanthrene, 7-ethenyltetradecahydro-4b,7,10a-trimethyl-1-methylene-,
(4aS-(4a α ,4b β ,7 α ,8 α ,10a β))-

Synonyms: none

Source: ref. cpd. ex Don Clark



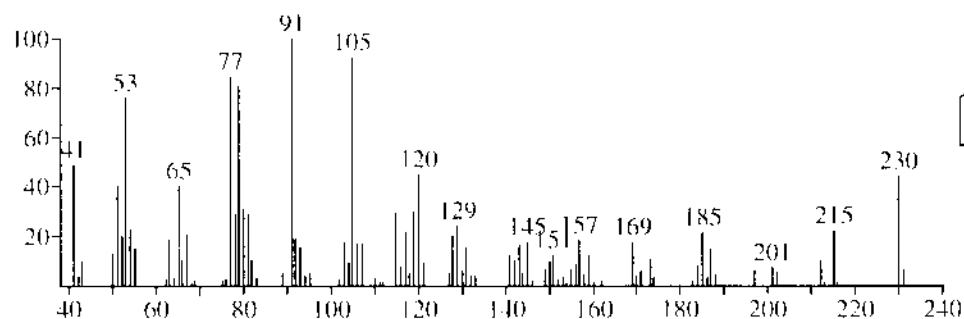
RT: 46.45 AI: 1974 KI: 1974 **Ferula lactone I**

CAS#: 159143-07-4 MF: C₁₅H₁₈O₂ FW: 230 MSD LIB#: 1857

CN: azuleno(4,5-b)furan-2(4H)-one,5,6,6a,7,9a,9b-hexahydro-3,9-dimethyl-6-methylene-,
(6aR-(6a α ,9a α ,9b β))-

Synonyms: none

Source: *Ferula arrigonii* ex Joseph Casanova



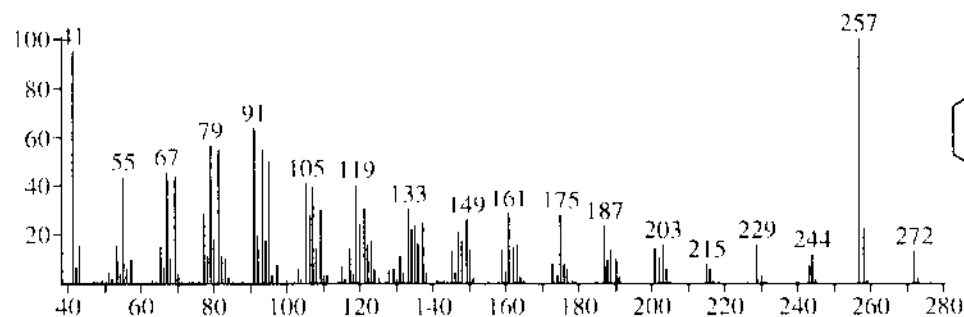
RT: 46.45 AI: 1974 KI: 1974 **Sclarene**

CAS#: 511-02-4 MF: C₂₀H₃₂ FW: 272 MSD LIB#: 1402

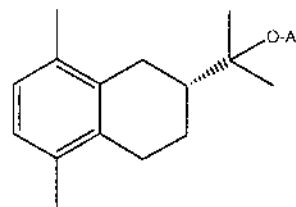
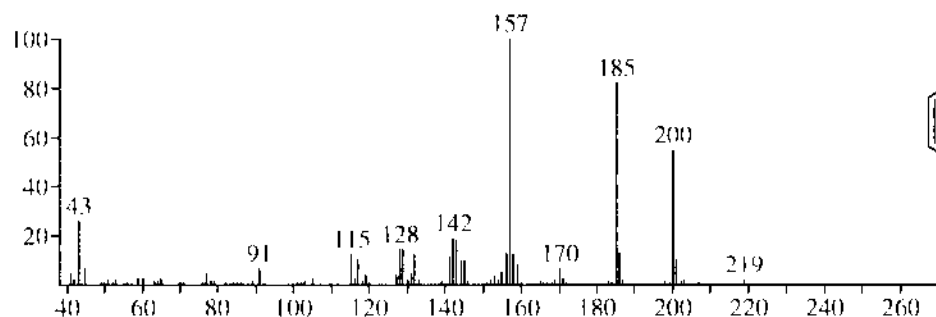
CN: naphthalene, decahydro-1,1,4a-trimethyl-6-methylene-5-(3-methylene-4-pentenyl)-,
(4aS-(4a α ,5 α ,8a β))-

Synonyms: labda-8(20),13(16),14-triene

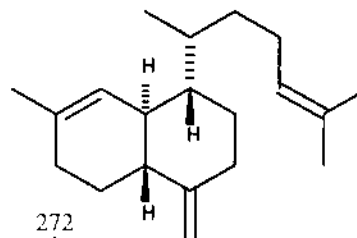
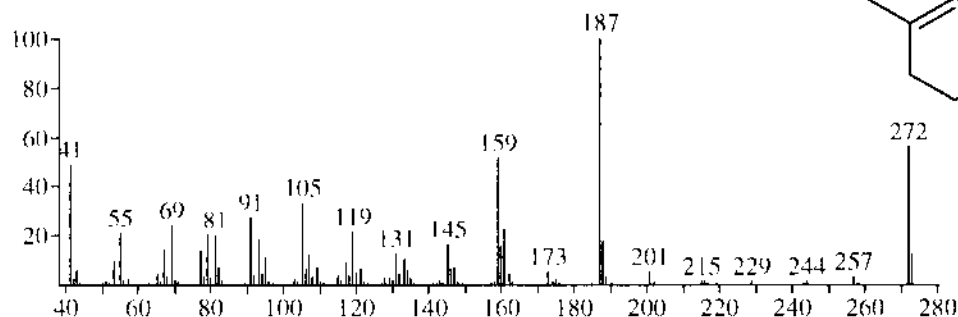
Source: ref. cpd. ex Don Clark; 0.01% *Thuja occidentalis*, JEOR 5:279(1993)



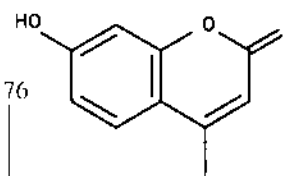
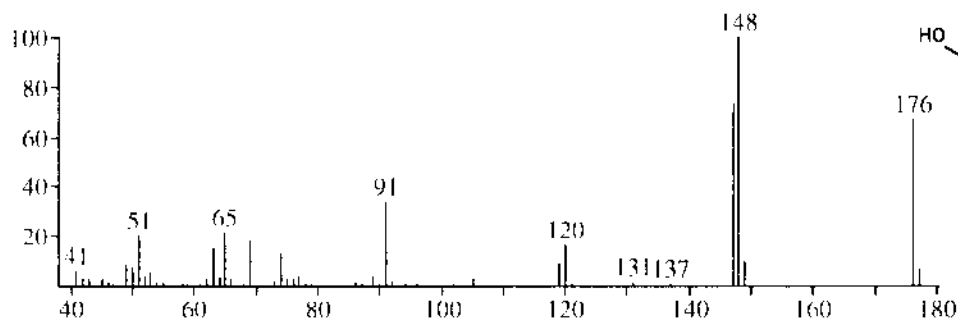
RT: 46.51 AI: 1975 KI: 1976 **Occidol acetate**
 CAS#: 61263-48-7 MF: C₁₇H₂₄O₂ FW: 260 MSD LIB#: 1196
 CN: 2-naphthalenemethanol, 1,2,3,4-tetrahydro- $\alpha,\alpha,5,8$ -tetramethyl-, acetate
 Synonyms: none
 Source: acetylation of occidol(6102)



RT: 46.56 AI: 1977 KI: 1978 **Bifloratriene**
 CAS#: 69636-81-3 MF: C₂₀H₃₂ FW: 272 MSD LIB#: 1466
 CN: naphthalene, 1-(1,5-dimethyl-4-hexenyl)-1,2,3,4,4a,5,6,8a-octahydro-7-methyl-4-methylene-, (1R-(1 α (S*),4 α (β ,8 α))-
 Synonyms: biflora-4,10(19),15-triene
 Source: Cubitermes (termites) ex G.D. Prestwich



RT: 46.69 AI: 1981 KI: 1981 **Coumarin <7-hydroxy-4-methyl->**
 CAS#: 90-33-5 MF: C₁₀H₈O₃ FW: 176 MSD LIB#: 479
 CN: 2H-1-benzopyran-2-one, 7-hydroxy-4-methyl-
 Synonyms: 4-methyl-umbelliferone; bilicante; cantabiline; cholestil; eurogale; hymecromone; imecromone; medilla; mendiaxon
 Source: ref. cpd. ex E von Rudloff



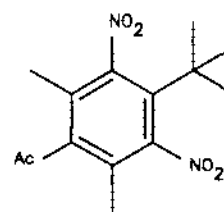
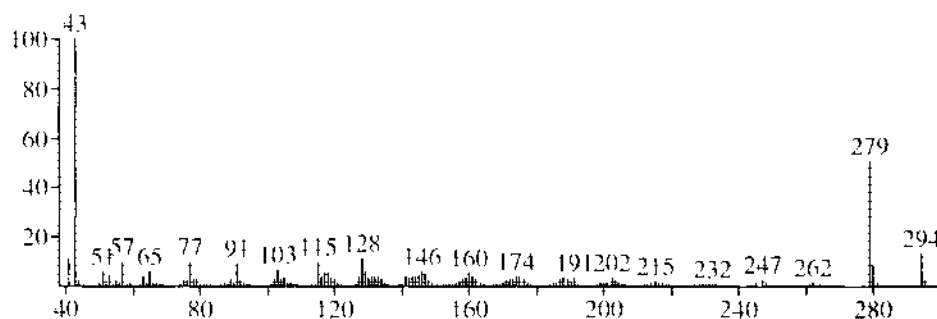
RT: 46.80 AI: 1984 KE: 1984 **Musk ketone**

CAS#: 81-14-1 MF: C₁₄H₁₈N₂O₅ FW: 294 MSD LIB#: 1115

CN: ethanone, 1-(4-(1,1-dimethylethyl)-2,6-dimethyl-3,5-dinitrophenyl)-

Synonyms: none

Source: Givaudan ex Art Tucker



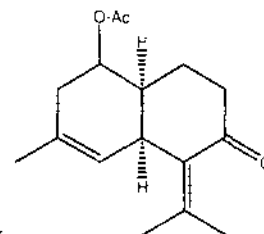
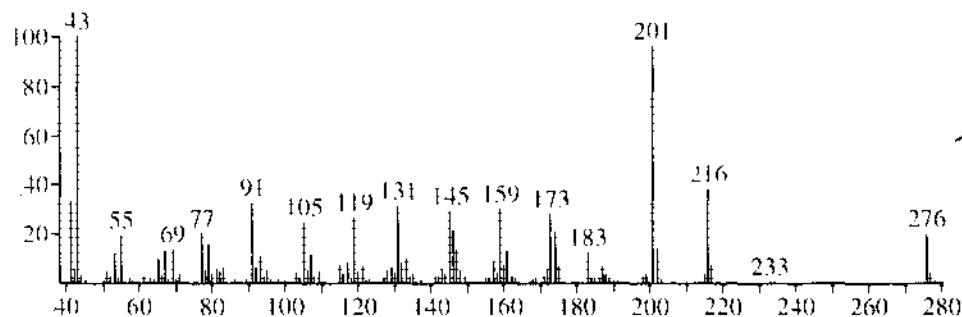
RT: 46.84 AI: 1985 KE: 1986 **Amorpha-4,7(11)-dien-8-one <2- α -acetoxy->**

CAS#: 000-00-0 MF: C₁₇H₂₄O₃ FW: 276 MSD LIB#: 1901

CN: not assigned

Synonyms: none

Source: Maque oil ex Winfried Koenig



RT: 46.89 AI: 1987 KE: 1987 **Manool oxide**

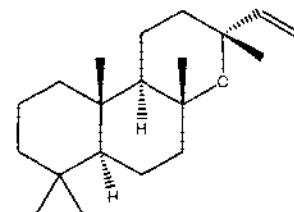
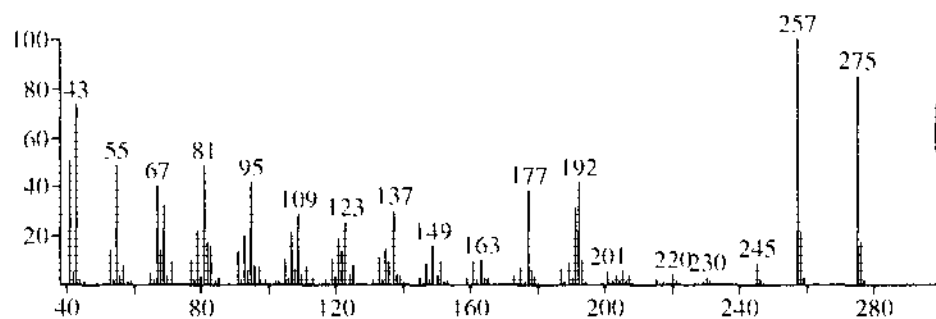
CAS#: 596-84-9 MF: C₂₀H₃₄O FW: 290 MSD LIB#: 1045

CN: 1H-naphtho(2,1-b)pyran, 3-ethenyldodecahydro-3,4a,7,7,10a-pentamethyl-, (3R,4aR,6aS,10aS,10bR)-

Synonyms: 8a,13-epoxylabd-14-ene

Source: Dragoco ex E. von Rudloff; 6.60% *Juniperus flaccida*, JECOR 2:99(1990);

1.15% *Salvia sclarea*; 0.90% *Juniperus martinensis*



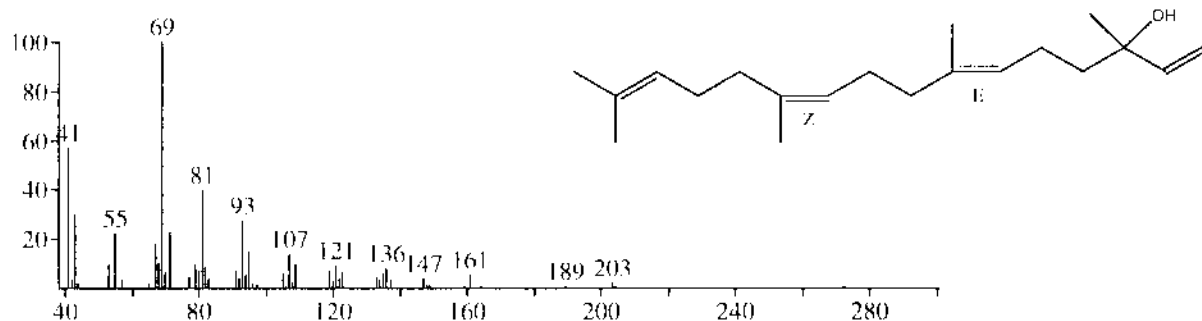
RT: 46.90 AI: 1987 KI: 1987 **Geranyl linalool <(E,Z)->**

CAS#: 000-00-0 MF: C₂₀H₃₄O FW: 290 MSD LIB#: 1963

CN: 1,6,10,14-hexadecatetraen-3-ol, 3,7,11,15-tetramethyl-, (6E,10Z)-

Synonyms: none

Source: Bedoukian Res. ex J.J. Brophy



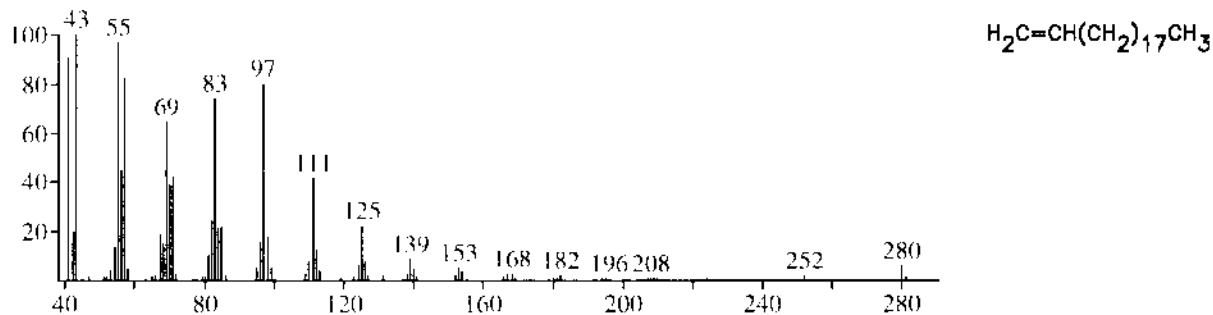
RT: 46.92 AI: 1987 KI: 1988 **Eicosene <1->**

CAS#: 3452-07-1 MF: C₂₀H₄₀ FW: 280 MSD LIB#: 1217

CN: eicosene (1-)

Synonyms: cetyl ethylene

Source: Olefins mix, Aldrich and Sigma Chem.



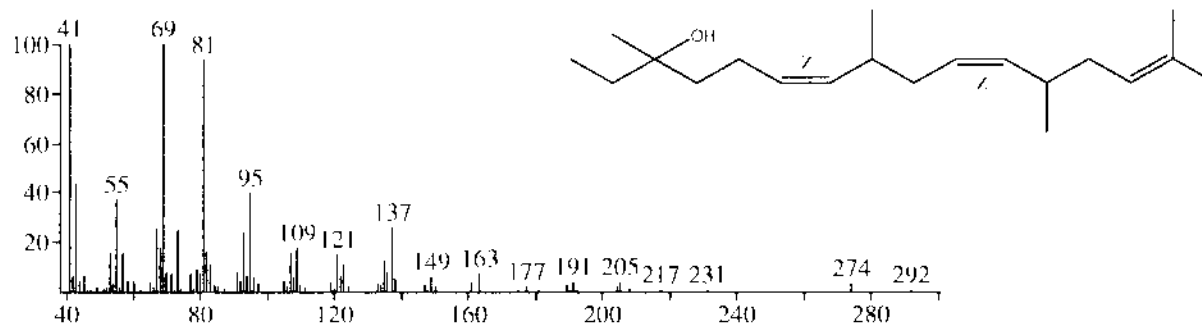
RT: 46.93 AI: 1988 KI: 1988 **Pseudo phytol <(6Z,10Z)->**

CAS#: 000-00-0 MF: C₂₀H₃₆O FW: 292 MSD LIB#: 2155

CN: 6,10,14-hexadecatrien-3-ol, 3,7,11,15-tetramethyl-, (6Z,10Z)-

Synonyms: none

Source: Bedoukian Res.



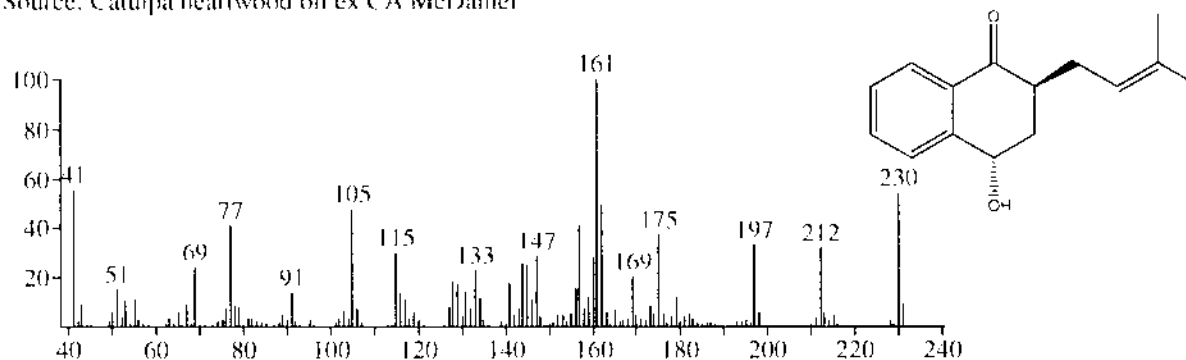
RT: 46.94 AI: 1988 KI: 1988 **Catalponol <epi->**

CAS#: 70368-23-9 MF: C₁₅H₁₈O₂ FW: 230 MSD LIB#: 388

CN: (12H)-naphthalenone, 3,4-dihydro-4-hydroxy-2-(3-methyl-2-butenyl)-, (2S-trans)-

Synonyms: none

Source: Catulpa heartwood oil ex CA McDaniel



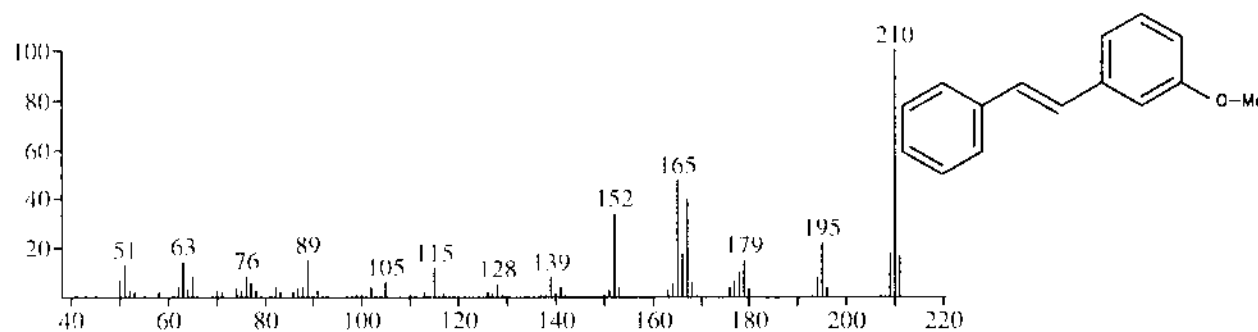
RT: 47.06 AI: 1992 KI: 1992 **Stilbene <4-methoxy->**

CAS#: 1142-15-0 MF: C₁₅H₁₄O FW: 210 MSD LIB#: 1437

CN: benzene, 1-methoxy-4-(2-phenylethenyl)-

Synonyms: anisole, p-styryl-

Source: ref. cpd. ex E. von Rudloff



RT: 47.09 AI: 1992 KI: 1993 **Ethyl hexadecanoate**

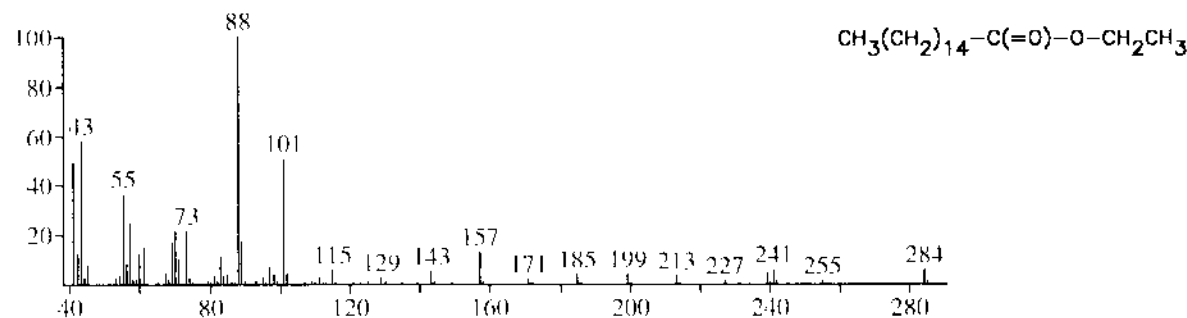
CAS#: 628-97-7 MF: C₁₈H₃₆O₂ FW: 284 MSD LIB#: 672

CN: hexadecanoic acid, ethyl ester

Synonyms: ethyl palmitate

Source: Aldrich Chem.; 10.36% *Pistacia lentiscus* (leaf), JEOR 4:663(1992);

9.00% *Spartium juncetum*; 8.35% *Pistacia lentiscus* (fruit)



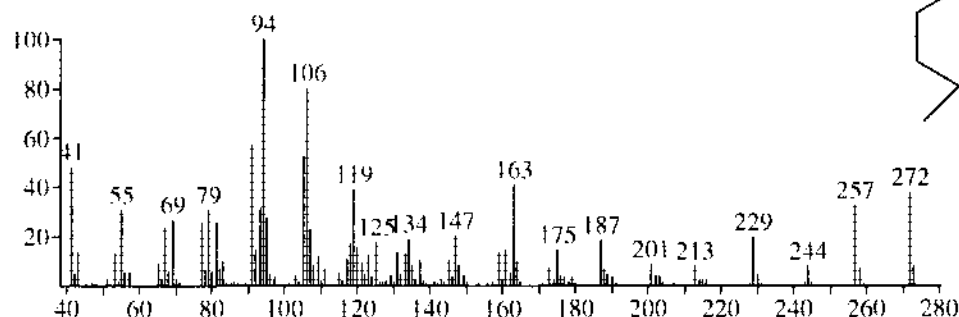
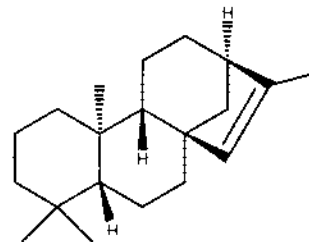
RT: 47.25 AI: 1997 KI: 1997 **Kaur-15-ene**

CAS#: 5947-50-2 MF: C₂₀H₃₂ FW: 272 MSD LIB#: 966

CN: kaur-15-ene

Synonyms: isokaurene; kryptomerene

Source: ref. cpd. ex Don Clark



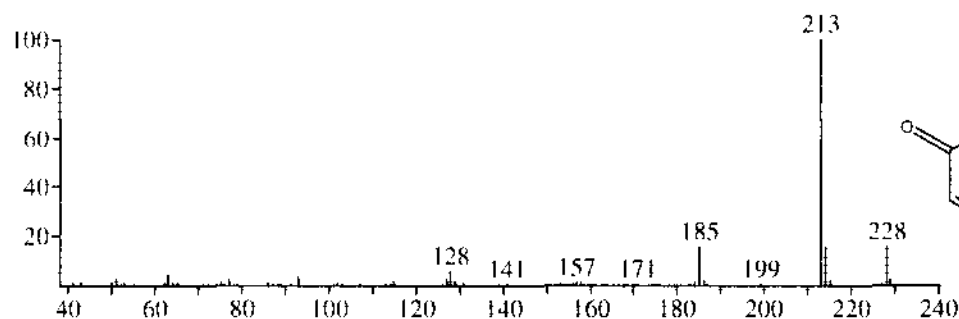
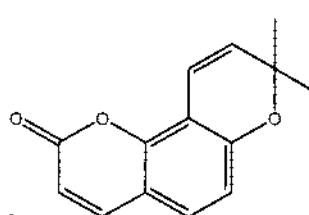
RT: 47.27 AI: 1998 KI: 1998 **Seselin**

CAS#: 523-59-1 MF: C₁₄H₁₂O₃ FW: 228 MSD LIB#: 1406

CN: 2H,8H-benzo(1,2-b:3,4-b')dipyran-2-one, 8,8-dimethyl-

Synonyms: amyrolin

Source: ref. cpd. ex RDH Murrey, Scotland



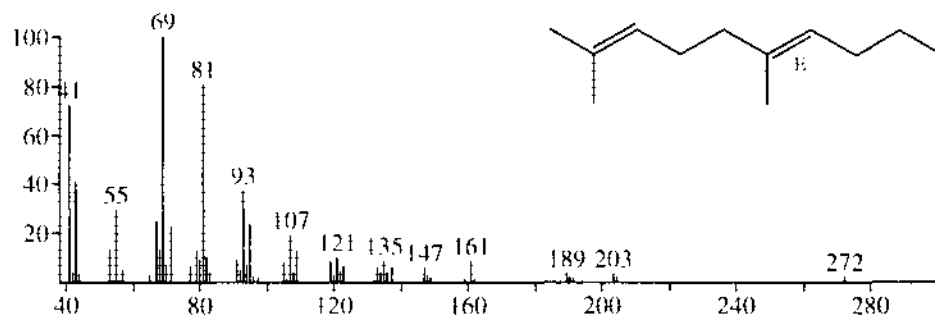
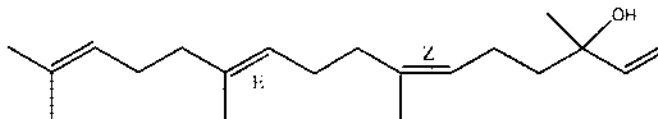
RT: 47.29 AI: 1998 KI: 1998 **Geranyl linalool <(Z,E)->**

CAS#: 000-00-0 MF: C₂₀H₃₄O FW: 290 MSD LIB#: 1964

CN: 1,6,10,14-hexadecatetraen-3-ol, 3,7,11,15-tetramethyl-, (6Z,10E)-

Synonyms: none

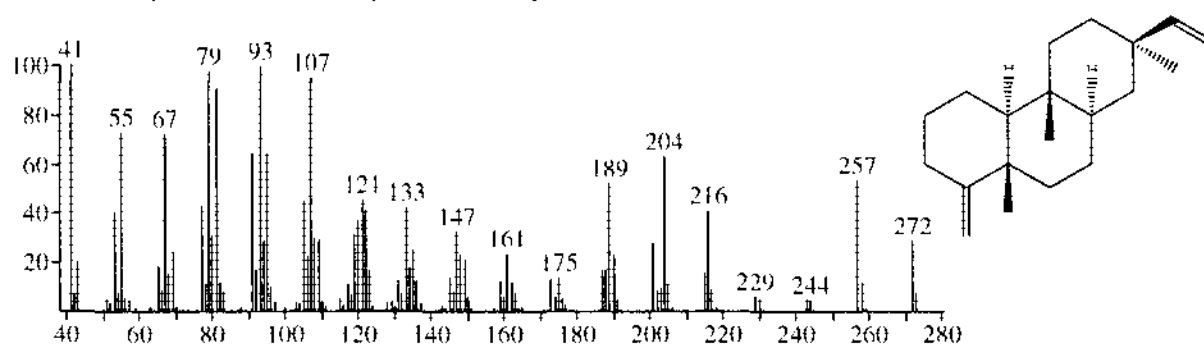
Source: Bedoukian Res. ex JJ Brophy



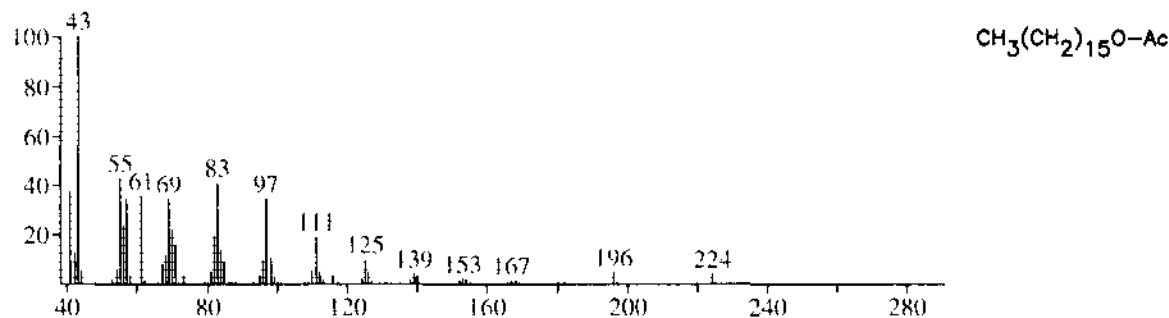
RT: 47.33 AI: 2000 KI: 2000 **Eicosane <n->**
 CAS#: 112-95-8 MF: C₂₀H₄₂ FW: 282 MSD LIB#: 100
 CN: eicosane
 Synonyms: none
 Source: alkanes mix. Altech Assoc.



RT: 47.35 AI: 2000 KI: 2000 **Dolabradiene <13-epi->**
 CAS#: 134507-28-1 MF: C₂₀H₃₂ FW: 272 MSD LIB#: 1502
 CN: phenanthrene, 7-ethenyltetradecahydro-4b,7,10a-trimethyl-1-methylene-,
 (4aS-(4a α ,4b β ,7 β ,8a α ,10a β))-
 Synonyms: none
 Source: *Thujopsis dolabrata*, diterpenes ex S. Nagahama



RT: 47.45 AI: 2003 KI: 2003 **Hexadecyl acetate**
 CAS#: 629-70-9 MF: C₁₈H₃₆O₂ FW: 284 MSD LIB#: 38
 CN: 1-hexadecanol, acetate
 Synonyms: palmityl acetate, cetyl acetate
 Source: ref. cpd. ex E. von Rudloff



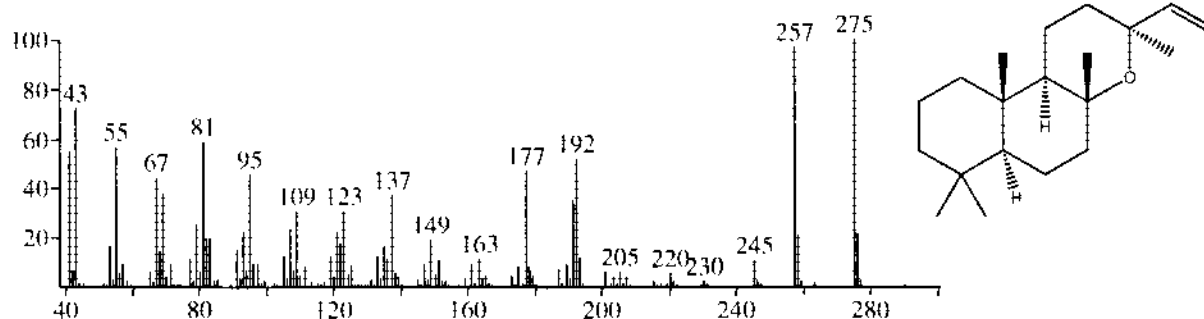
RT: 47.64 AI: 2009 KI: 2010 **Manool oxide <13-epi->**

CAS#: 1227-93-6 MF: C₂₀H₃₄O FW: 290 MSD LIB#: 1049

CN: 11H-naphtho(2,1-b)pyran, 3-ethenyldodecahydro-3,4a,7,7,10a-pentamethyl-, (3S,4aR,6aS,10aS,10bR)-

Synonyms: none

Source: Dragoco ex E. von Rudloff



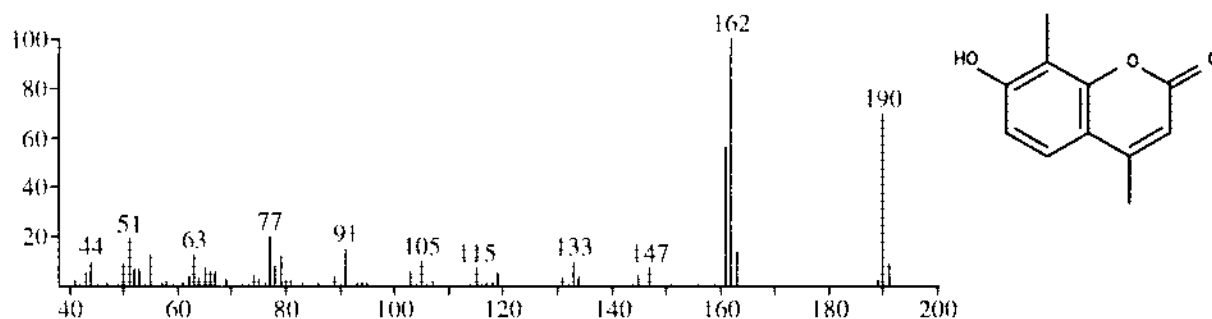
RT: 47.75 AI: 2013 KI: 2013 **Coumarin <7-hydroxy-4,8-dimethyl->**

CAS#: 4115-76-8 MF: C₁₁H₁₀O₃ FW: 190 MSD LIB#: 480

CN: 2H-1-benzopyran-2-one, 7-hydroxy-4,8-dimethyl-

Synonyms: umbelliferone, 4,8-dimethyl-

Source: ref. cpd. ex E. von Rudloff



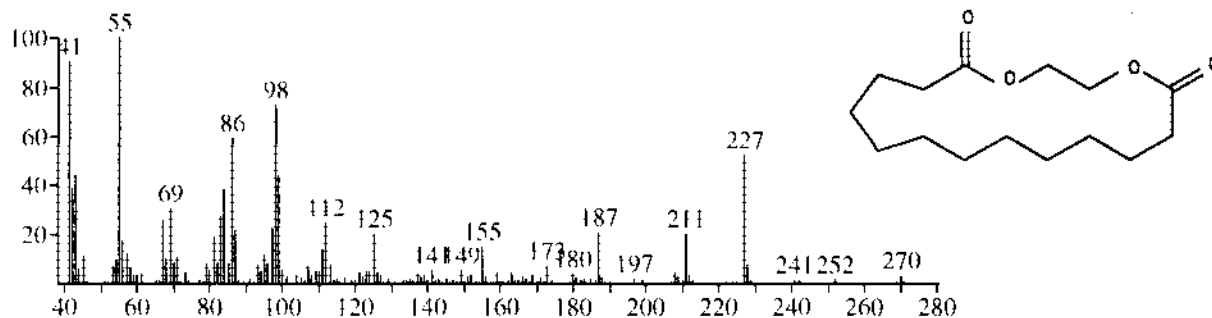
RT: 47.82 AI: 2015 KI: 2015 **Ethylene brassylate**

CAS#: 105-95-3 MF: C₁₅H₂₆O₄ FW: 270 MSD LIB#: 689

CN: 1,4-dioxacycloheptadecane-5,17-dione

Synonyms: astratone; musk T

Source: Pfaltz & Bauer ex Art Tucker



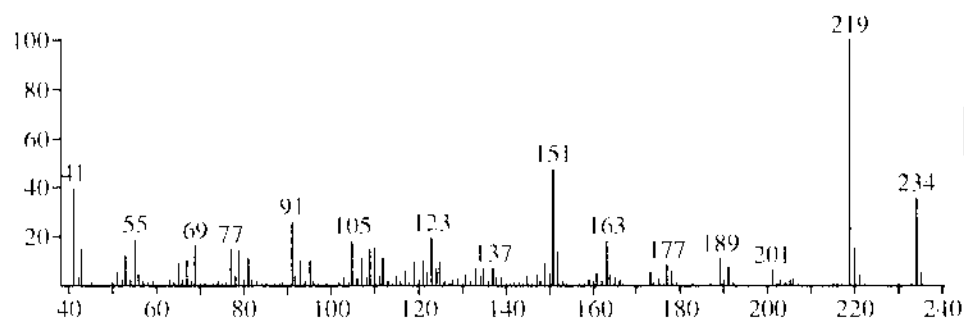
RT: 47.85 AI: 2016 KI: 2017 **Polygodial**

CAS#: 6754-20-7 MF: C₁₅H₂₂O₂ FW: 234 MSD LIB#: 1829

CN: 1,2-naphthalenedicarboxaldehyde, 1,4,4a,5,6,7,8,8a-octahydro-5,5,8a-trimethyl-, (1R,4aS,8aS)-

Synonyms: Tadeonal, drim 7 ene-11,12-dial, polygodial

Source: *Cinnamodendron corticosum* oil ex Helen Jacobs, Jamaica



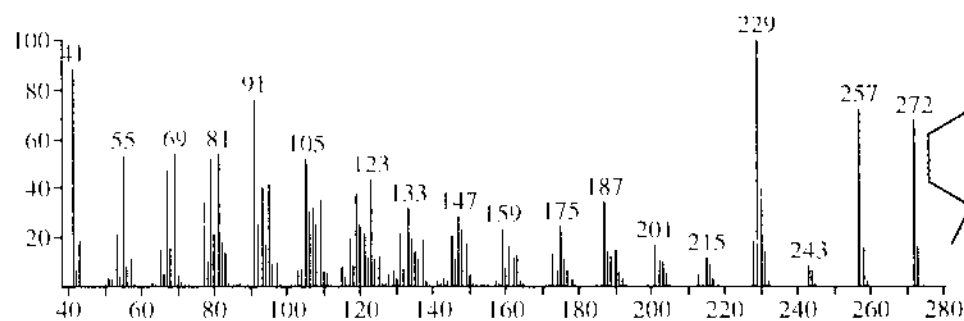
RT: 47.86 AI: 2016 KI: 2017 **Phyllocladene**

CAS#: 20070-61-5 MF: C₂₀H₃₂ FW: 272 MSD LIB#: 550

CN: kaur-16-ene, (8β,13β)-

Synonyms: none

Source: *Dacrydium* sp. ex AR Hayman, New Zealand



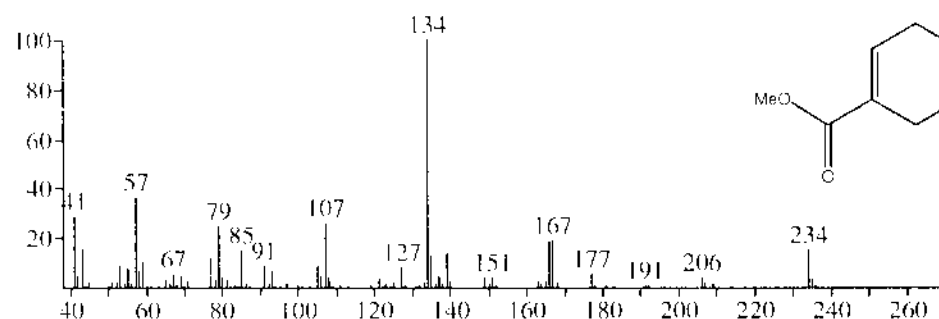
RT: 47.90 AI: 2018 KI: 2018 **Juvibione**

CAS#: 17904-27-7 MF: C₁₆H₂₆O₃ FW: 266 MSD LIB#: 1905

CN: 1-cyclohexene-1-carboxylic acid, 4-[(1R)-1,5-dimethyl-3-oxohexyl]-, methyl ester (4R)-

Synonyms: none

Source: ref. cpd, ex Francois Garneau, Canada (ex Abies)



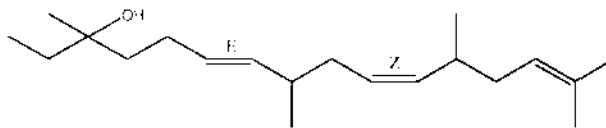
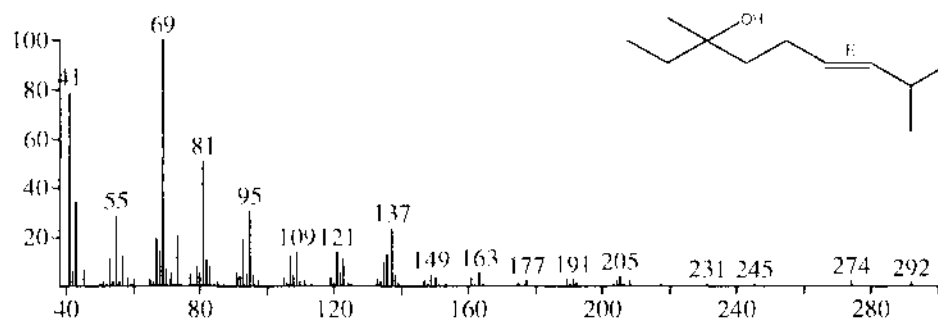
RT: 47.91 AI: 2018 KI: 2018 **Pseudo phytol <(6E,10Z)->**

CAS#: 000-00-0 MF: C₂₀H₃₆O FW: 292 MSD LIB#: 2156

CN: 6,10,14-hexadecatrien-3-ol, 3,7,11,15-tetramethyl-, (6E,10Z)-

Synonyms: none

Source: Bedoukian Res.



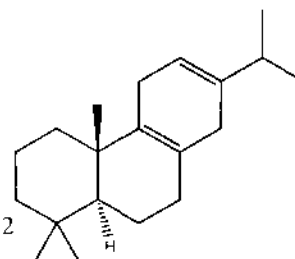
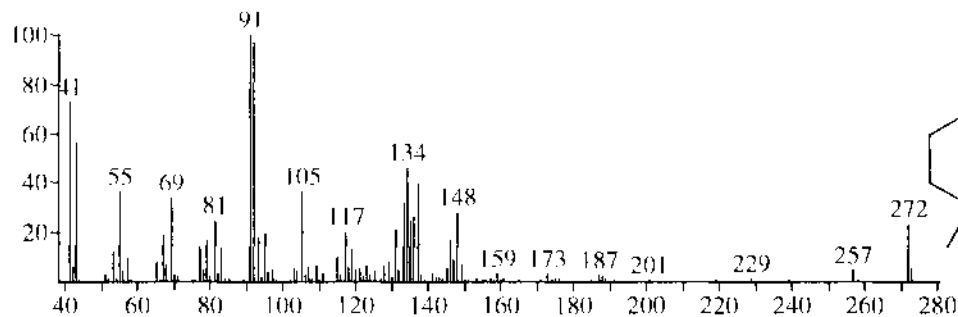
RT: 48.03 AI: 2022 KI: 2022 **Abieta-8,12-diene**

CAS#: 000-00-0 MF: C₂₀H₃₂ FW: 272 MSD LIB#: 512

CN: not assigned

Synonyms: none

Source: *Cupressus lusitanica* ex Larry Cool



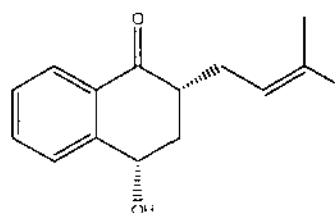
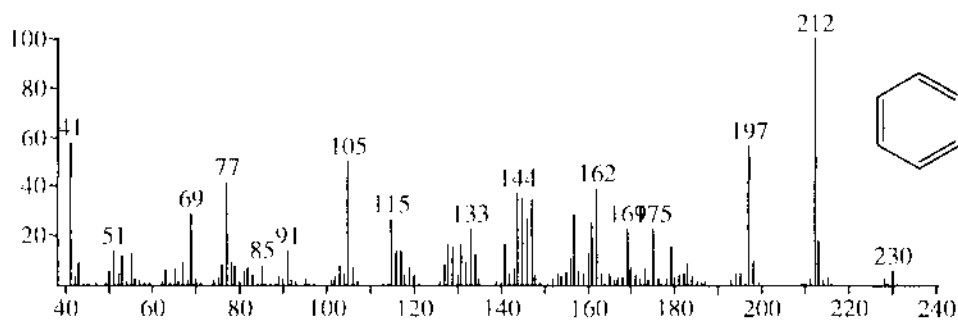
RT: 48.08 AI: 2023 KI: 2024 **Catalponol**

CAS#: 34168-56-4 MF: C₁₅H₁₈O₂ FW: 230 MSD LIB#: 389

CN: 1(2H)-naphthalenone, 3,4-dihydro-4-hydroxy-2-(3-methyl-2-butenyl)-, (2R-cis)-

Synonyms: none

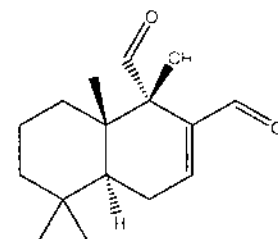
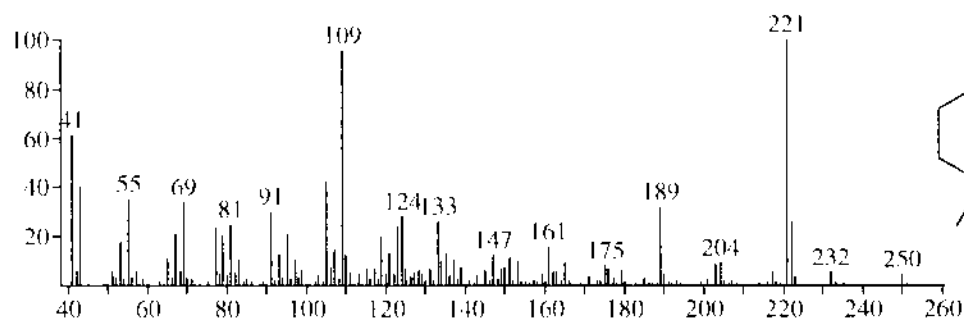
Source: Catulpa heartwood oil ex CA McDaniel



RT: 48.08 AI: 2023 KI: 2024 **Warburganal**CAS#: 62994-47-2 MF: C₁₅H₂₂O₃ FW: 250 MSD LIB#: 354CN: 1,2-naphthalenedicarboxaldehyde, 1,4,4a,5,6,7,8,8a-octahydro-1-hydroxy-5,5,8a-trimethyl-, (1S-(1 α ,4 α ,8 α β))-

Synonyms: none

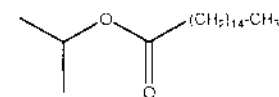
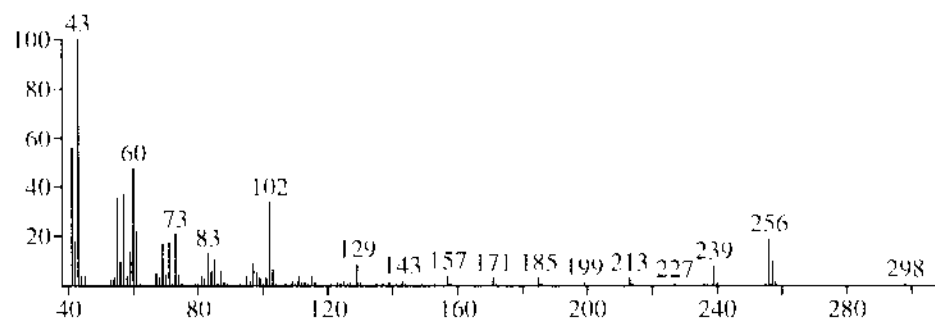
Source: ref. cpd. ex P. Waterman

RT: 48.09 AI: 2024 KI: 2024 **Isopropyl hexadecanoate**CAS#: 142-91-6 MF: C₁₉H₃₈O₂ FW: 298 MSD LIB#: 876

CN: isopropyl hexadecanoate

Synonyms: isopropyl palmitate

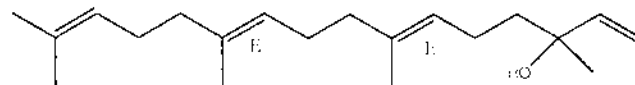
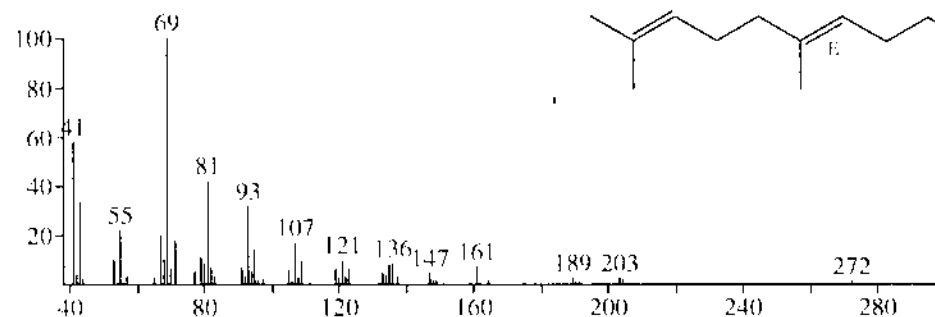
Source: Aldrich Chem.

RT: 48.16 AI: 2026 KI: 2027 **Geranyl linalool <(E,E)->**CAS#: 1113-21-9 MF: C₂₀H₃₄O FW: 290 MSD LIB#: 1965

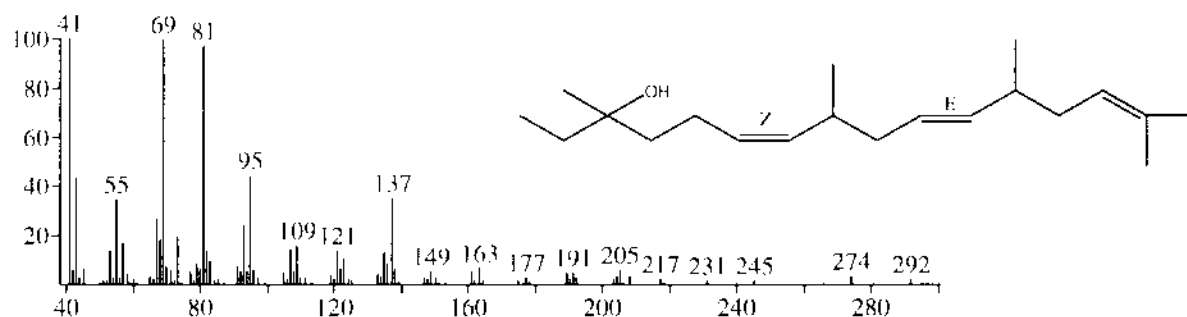
CN: 1,6,10,14-hexadecatetraen-3-ol, 3,7,11,15-tetramethyl-, (6E,10E)-

Synonyms: none

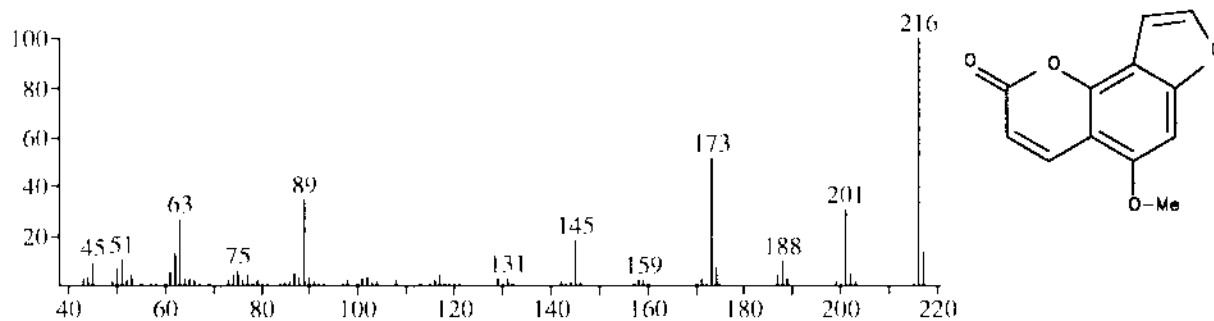
Source: Bedonkian Res. ex JJ Brophy



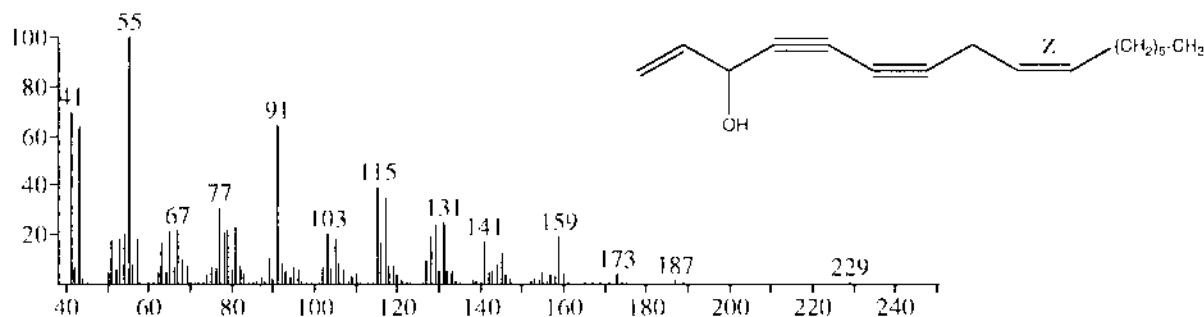
RT: 48.29 AI: 2030 KI: 2031 **Pseudo phytol <(6Z,10E)->**
 CAS#: 000-00-0 MF: C₂₀H₃₆O FW: 292 MSD LIB#: 2157
 CN: 6,10,14-hexadecatrien-3-ol, 3,7,11,15-tetramethyl-, (6Z,10E)-
 Synonyms: none
 Source: Bedoukian Res.



RT: 48.39 AI: 2033 KI: 2034 **Bergaptene <iso->**
 CAS#: 482-48-4 MF: C₁₂H₈O₄ FW: 216 MSD LIB#: 153
 CN: 2H-furo(2,3-b)-1-benzopyran-2-one, 5-methoxy-
 Synonyms: 5-methoxyangelicin
 Source: *Angelica archangelica* ex Chalchat & Garry



RT: 48.44 AI: 2035 KI: 2036 **Falcarinol <(Z)->**
 CAS#: 21852-80-2 MF: C₁₇H₂₄O FW: 244 MSD LIB#: 1022
 CN: 1,9-heptadecadiene-4,6-dien-3-ol, (3R,9Z)-
 Synonyms: panaxynol; carotatoxin
 Source: *Lomatium torreyi* ex Vasu Dev



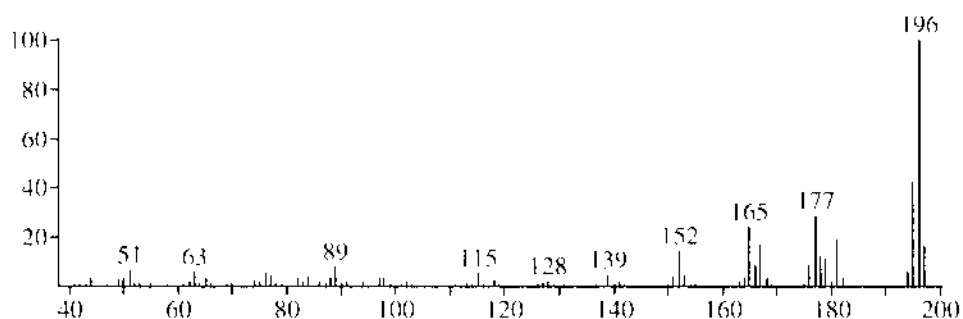
RT: 48.65 AI: 2042 KI: 2042 **Stilbene <4-hydroxy->**

CAS#: 3839-46-1 MF: C₁₄H₁₂O FW: 196 MSD LIB#: 1436

CN: phenol, 4-(2-phenylethenyl)-

Synonyms: 4-stilbenol; p-styrylphenol

Source: ref. cpd. ex E. von Rudloff



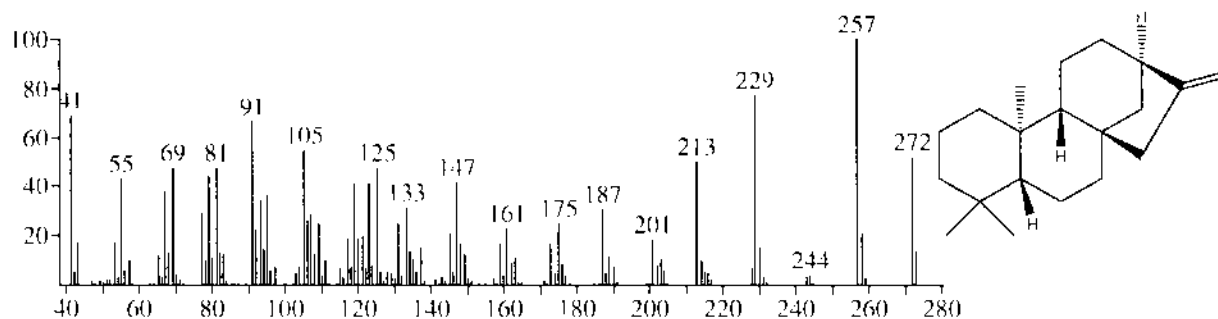
RT: 48.66 AI: 2042 KI: 2043 **Kaurene**

CAS#: 34424-57-2 MF: C₂₀H₃₂ FW: 272 MSD LIB#: 1337

CN: kaurene

Synonyms: 16-kaurene

Source: ref. cpd. ex Rex Weavers (ex *Podocarpus*): 5.68% *Acacia confusa*, p. 31, in: Aromatic Plants & Essential Constituents, Peace Book Co., Hong Kong (1995); 2.50% *Juniperus martinensis*; 0.70% *Vitex agnus-castus*



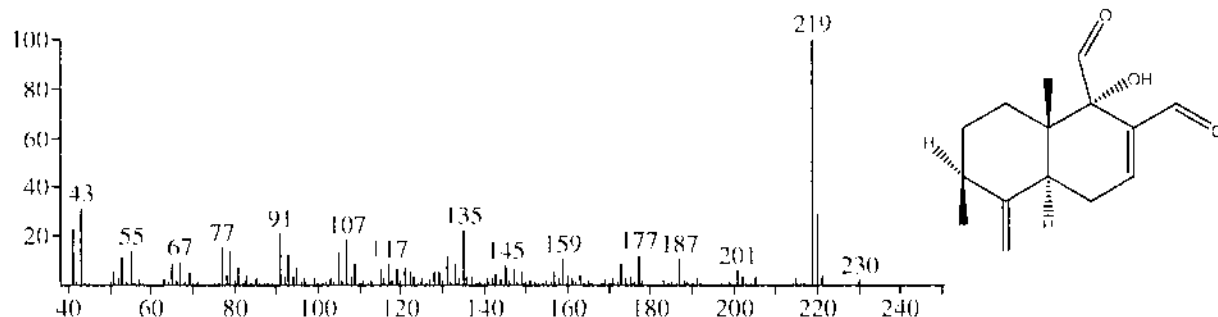
RT: 48.75 AI: 2045 KI: 2046 **Canellal**

CAS#: 66550-09-2 MF: C₁₅H₂₀O₃ FW: 248 MSD LIB#: 353

CN: 1,2-naphthalenedicarboxaldehyde, 1,4,4a,5,6,7,8,8a-octahydro-1-hydroxy-6,8a-dimethyl-5-methylene-, (1S-(1α,4α,6β,8αβ))-

Synonyms: muzigadial

Source: *Canella winterana* wood ex PG Waterman



RT: 49.08 AI: 2055 KI: 2056 **Abietatriene**

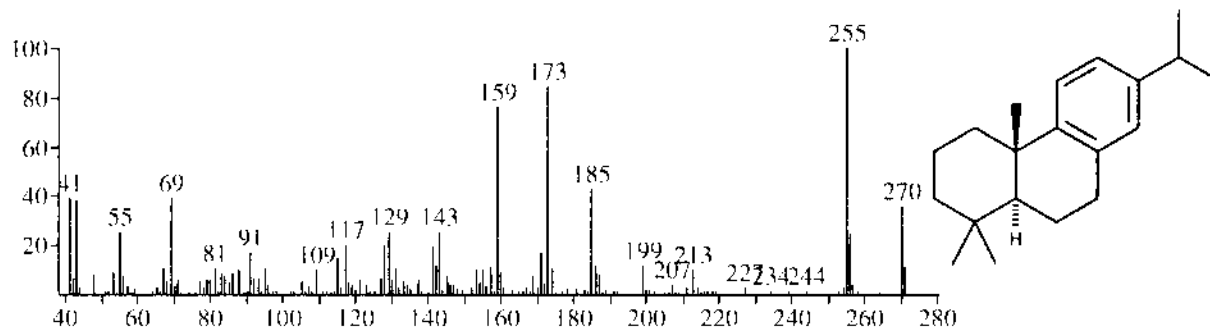
CAS#: 19407-28-4 MF: C₂₀H₃₀ FW: 270 MSD LIB#: 909

CN: phenanthrene, 1,2,3,4,4a,9,10,10a-octahydro-1,1,4a-trimethyl-7-(1-methylethyl)-, (4aS,trans)-

Synonyms: abietane, dehydro-; podocarpa-8,11,13-triene, 13-isopropyl-; abieta-8,11,13-triene

Source: *Juniperus lucayana* leaf oil ex RP Adams #2863; 4.40% *Hyptis suaveolens*,

JEOR 4:9(1992); 0.60% *Juniperus flaccida*; 0.50% *Juniperus rigida* (China)



RT: 49.10 AI: 2056 KI: 2057 **Bergapten**

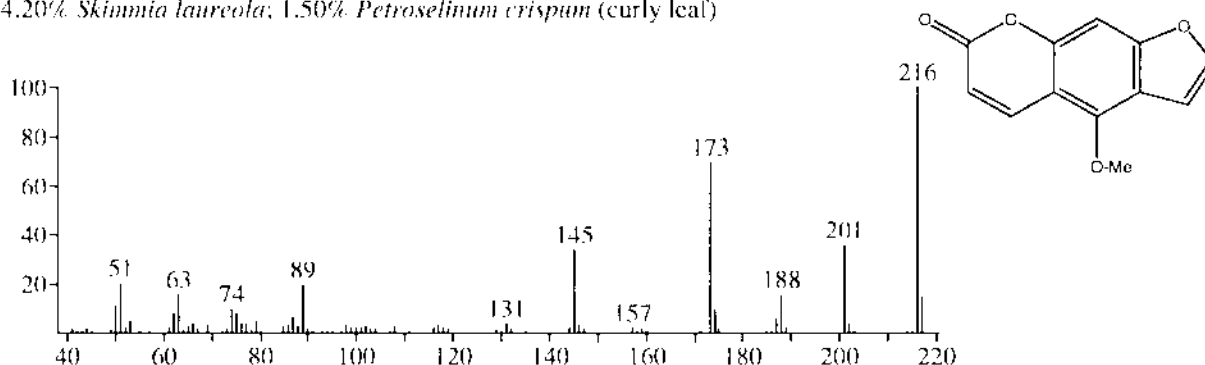
CAS#: 484-20-8 MF: C₁₂H₈O₄ FW: 216 MSD LIB#: 154

CN: 7H-furo(3,2-g)[1]benzopyran-7-one, 4-methoxy-

Synonyms: 5-methoxy-6,7-furanocoumarin; 5-methoxypsorlen; heraclin; majudin; psoraderm

Source: *Angelica archangelica* ex Chalchat & Garry; 7.24% *Ruta graveolens*, JEOR 1:203(1989);

4.20% *Skimmia laureola*; 1.50% *Petroselinum crispum* (curly leaf)



RT: 49.11 AI: 2056 KI: 2057 **Manool**

CAS#: 596-85-0 MF: C₂₀H₃₄O FW: 290 MSD LIB#: 898

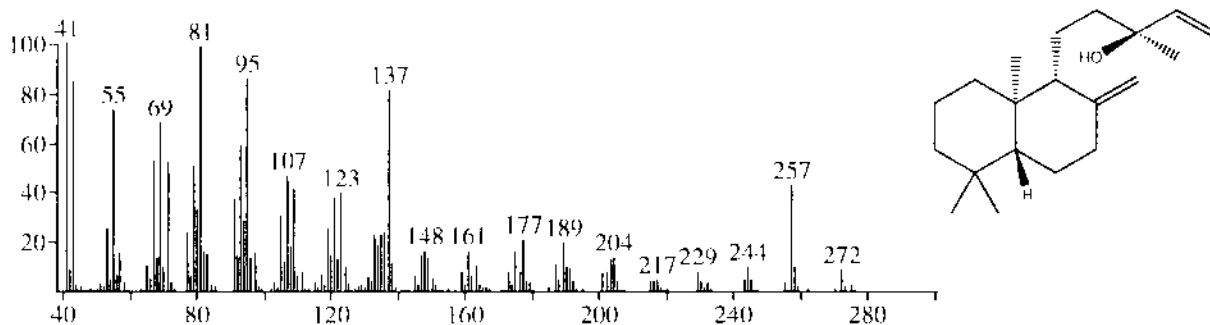
CN: 1-naphthalenepropanol, α -ethenyldecahydro- α ,5,5,8a-tetramethyl-2-methylene-,

1S-1 α , (S*),4 α ,8 α)-

Synonyms: labda 8(20),14 dien 13 ol,(13R)-

Source: *Juniperus blancoi* leaf oil, RP Adams #1486; 3.57% *Salvia officinalis* (Lamiaceae),

JEOR 7:317(1995); 2.10% *Vitex agnus-castus*; 1.94% *Salvia officinalis* (lavandulaifolia)



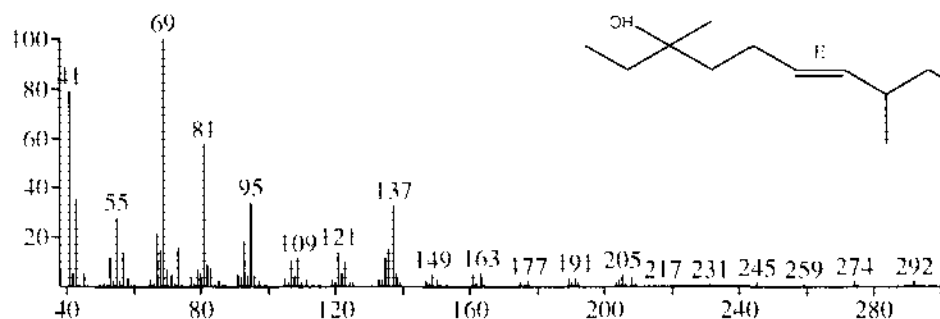
RT: 49.16 AI: 2058 KI: 2059 **Pseudo phytol <(6E,10E)->**

CAS#: 000-00-0 MF: C₂₀H₃₆O FW: 292 MSD LIB#: 2158

CN: 6,10,14-hexadecatrien-3-ol, 3,7,11,15-tetramethyl-, (6E,10E)-

Synonyms: none

Source: Bedoukian Res.



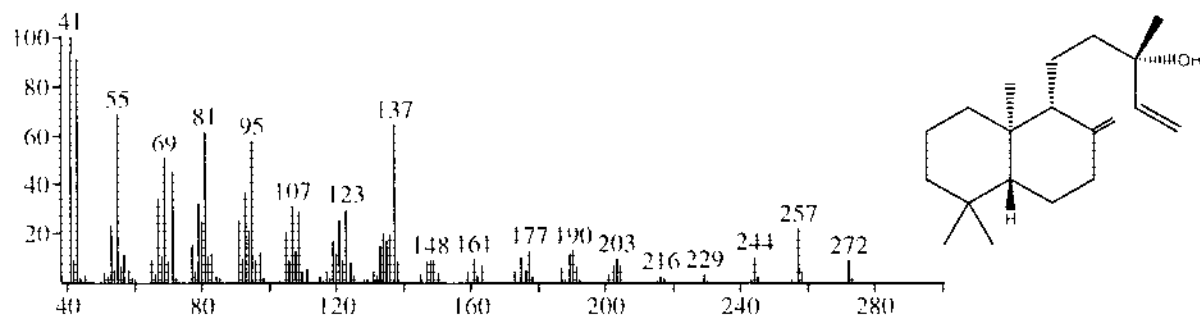
RT: 49.20 AI: 2059 KI: 2060 **Manool <13-epi->**

CAS#: 1438-62-6 MF: C₂₀H₃₄O FW: 290 MSD LIB#: 2174

CN: 1-naphthalenepropanol, α -ethenyldecalhydro- α ,5,5,8a-tetramethyl-2-methylene-, (1S-(1 α .(R*),4 α ,8 α))-

Synonyms: none

Source: *Abies marocana* oil ex AF Barrero



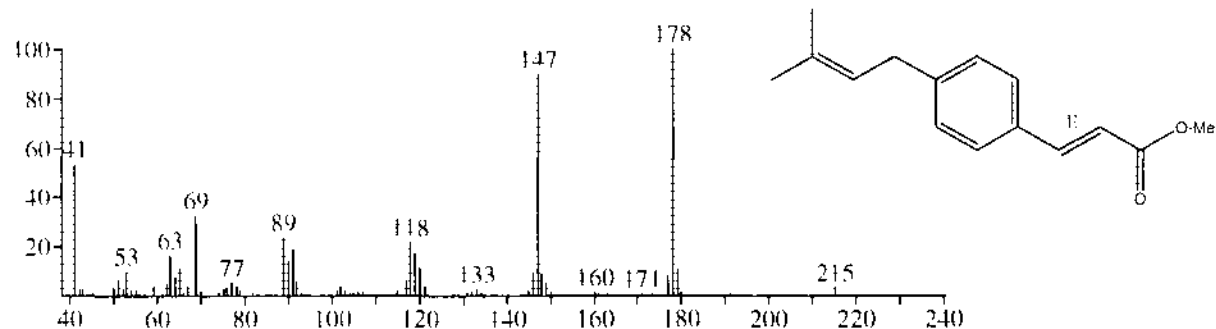
RT: 49.40 AI: 2065 KI: 2066 **Isoprenyl cinnamate <(E)-methyl->**

CAS#: 000-00-0 MF: C₁₅H₁₈O₂ FW: 230 MSD LIB#: 1671

CN: not assigned

Synonyms: none

Source: *Eriostemon banksii* oil ex JJ Brophy



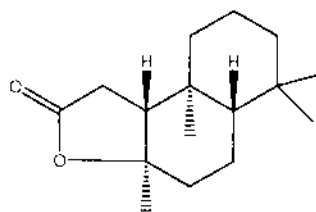
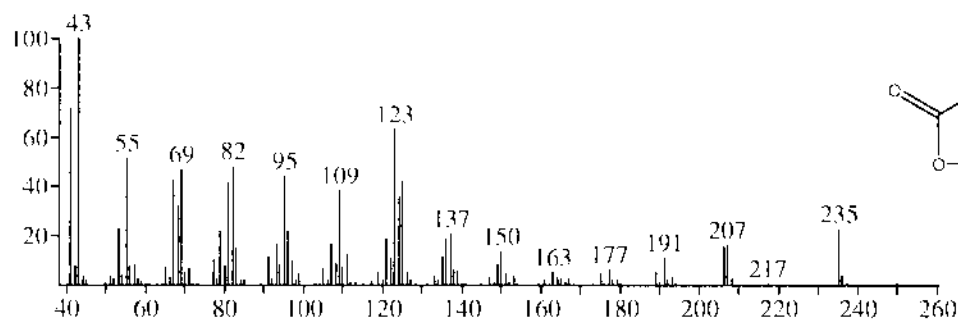
RT: 49.40 AI: 2065 KI: 2066 **Sclareolide**

CAS#: 564-20-5 MF: C₁₆H₂₆O₂ FW: 250 MSD LIB#: 2177

CN: naphtho[2,1-b]furan=2(1H)-one, decahydro-3a,6,6,9a-tetramethyl-, (3aR,5aS,9aS,9bR)-

Synonyms: norambreinolide

Source: *Cistus* oil ex Joaquin Altarejos



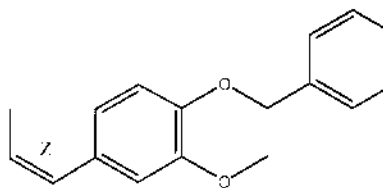
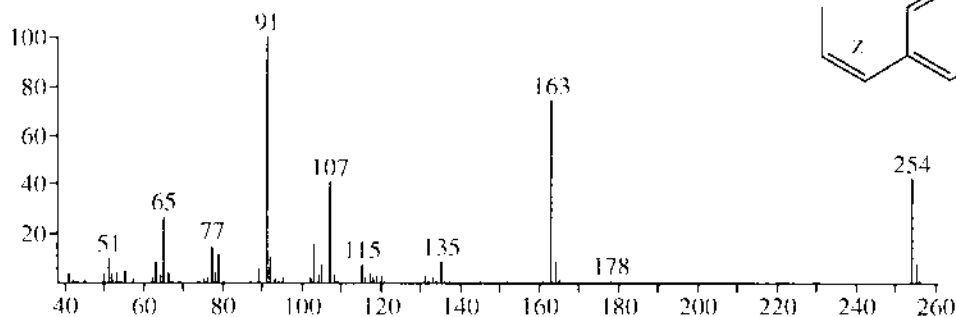
RT: 49.60 AI: 2072 KI: 2072 **Isoeugenyl benzyl ether <(Z)->**

CAS#: 128839-47-4 MF: C₁₇H₁₈O₂ FW: 254 MSD LIB#: 1618

CN: benzene, 2-methoxy-1-(phenylmethoxy)-4-(1-propenyl)-, (Z)-

Synonyms: none

Source: Aldrich Chem.



RT: 49.76 AI: 2077 KI: 2077 **Octadecanol <n->**

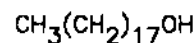
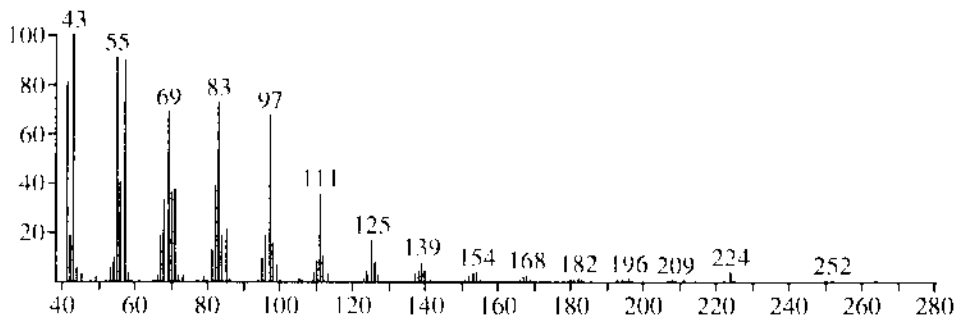
CAS#: 112-92-5 MF: C₁₈H₃₈O FW: 270 MSD LIB#: 30

CN: 1-octadecanol

Synonyms: stearyl alcohol

Source: ref. cpd. ex E. von Rudloff; 1.35% *Angelica archangelica*,

J. Ag. Food Chem. 42:1979(1994); 0.01% *Spartium junceum*



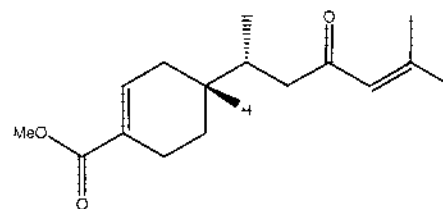
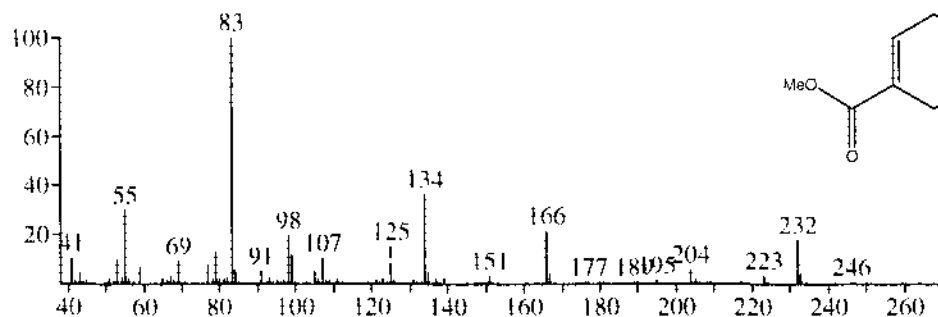
RT: 50.00 AI: 2085 KI: 2085 **Juvibione <dehydro>**

CAS#: 16060-78-9 MF: C₁₆H₂₄O₃ FW: 264 MSD LIB#: 1906

CN: 1-cyclohexene-1-carboxylic acid, 4-[(1R)-1,5-dimethyl-3-oxo-4-hexenyl]-, methyl ester (4R)-

Synonyms: none

Source: ref. epd. ex Francois Garneau, Canada (ex Abies)



RT: 50.08 AI: 2087 KI: 2087 **Abietadiene**

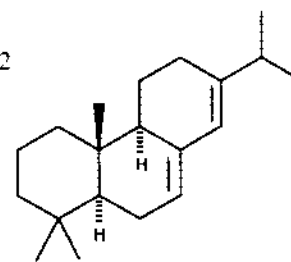
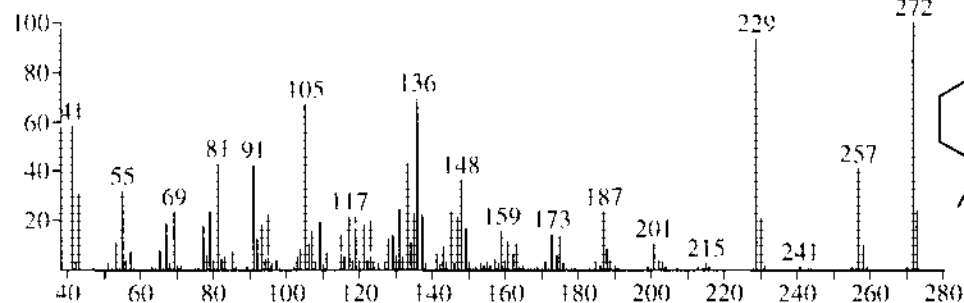
CAS#: 35241-40-8 MF: C₂₀H₃₂ FW: 272 MSD LIB#: 3

CN: abiet-7,13-diene

Synonyms: none

Source: *Cupressus arizonica* ex MD Sutherland; 0.10% *Juniperus rigida* (Japan)

II:OR 2:279(1993); 0.05% *Thuja occidentalis*; 0.05% *Juniperus rigida* (China)



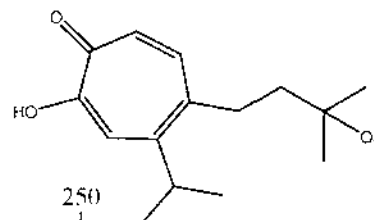
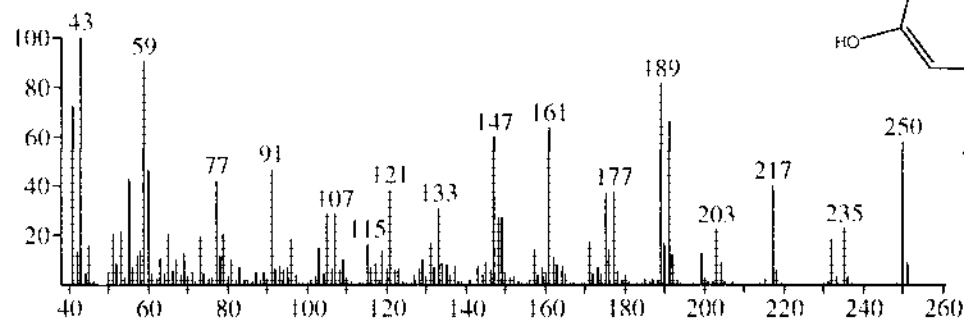
RT: 50.10 AI: 2088 KI: 2088 **Nootkatinol**

CAS#: 2492-08-2 MF: C₁₅H₂₂O₃ FW: 250 MSD LIB#: 1891

CN: 2,4,6-cycloheptatrien-1-one, 2-hydroxy-5-(3-hydroxy-3-methylbutyl)-4-(1-methylethyl)-

Synonyms: hydronootkatinol

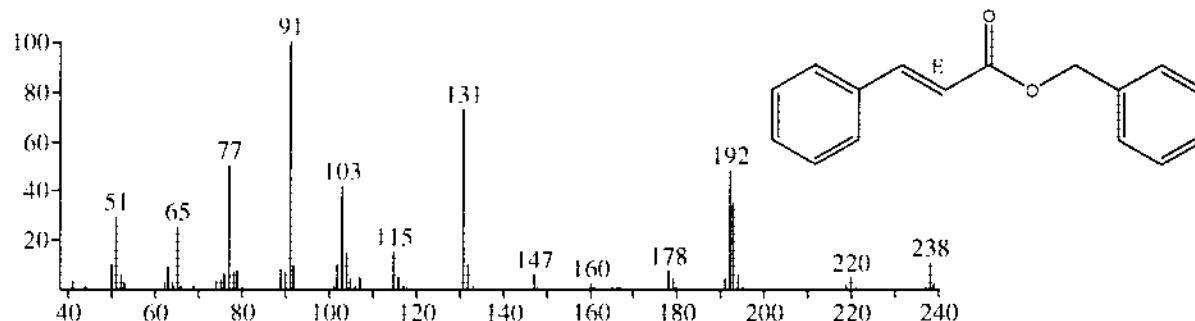
Source: *Cupressus glabra* wood oil ex E. Zavarin and Larry Cool



RT: 50.22 AI: 2092 KI: 2092 **Benzyl cinnamate**CAS#: 103-41-3 MF: C₁₆H₁₄O₂ FW: 238 MSD LIB#: 287

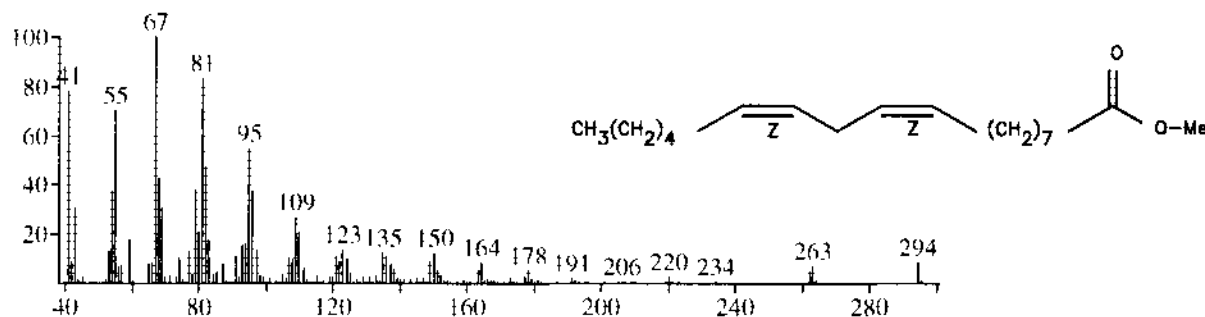
CN: benzyl cinnamate

Synonyms: trans-cinnamic acid, benzyl ester; cinnamoin; benzyl alcohol, cinnamate

Source: Aldrich Chem.; 30.10% *Myroxylon peruvianum*, An. Farm. Quim Sao Paulo17:25(1977); 4.47% *Cuminum cyminum*; 1.70% *Liquidambar styraciflua*RT: 50.33 AI: 2095 KI: 2085 **Methyl linoleate**CAS#: 112-63-0 MF: C₁₉H₃₄O₂ FW: 294 MSD LIB#: 1102

CN: 9,12-octadecadienoic acid, (Z,Z)-, methyl ester

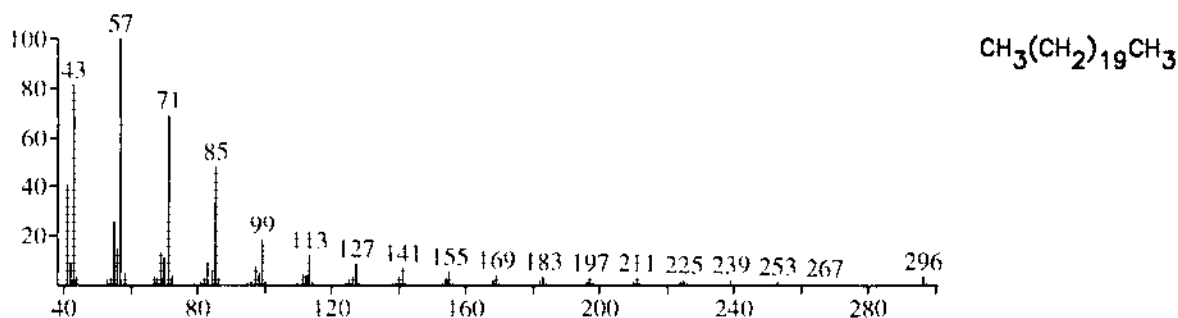
Synonyms: linoleic acid, methyl ester

Source: ICN Chem, ex Art Tucker; 12.60% *Jasminum sambac*, JEOR 7:21(1995);9.48% *Brassica juncea* (China); 3.22% *Jasmine officinale*(China)RT: 50.47 AI: 2100 KI: 2100 **Heneicosane <n>**CAS#: 629-94-7 MF: C₂₁H₄₄ FW: 296 MSD LIB#: 105

CN: heneicosane

Synonyms: none

Source: alkanes mix, Alltech Assoc.



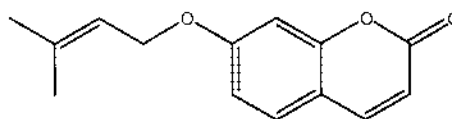
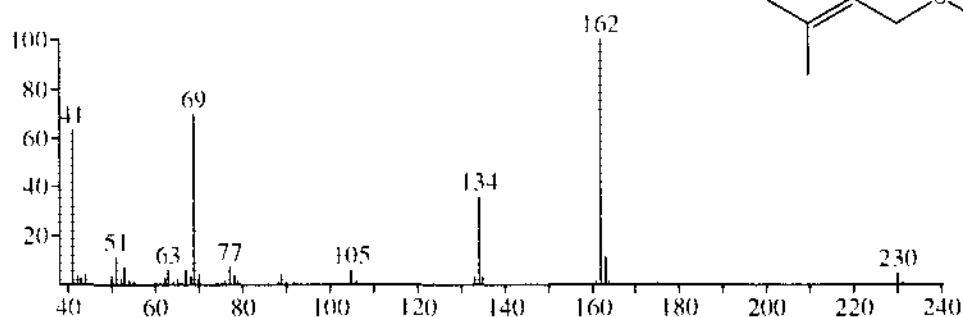
RT: 50.95 AI: 2115 KI: 2116 **Isoprenyl oxycoumarin <7>**

CAS#: 10387-50-5 MF: C₁₄H₁₄O₃ FW: 230 MSD LIB#: 1930

CN: 2H-1-benzopyran-2-one,7-[(3-methyl-2-butenyl)oxy]-

Synonyms: o-prenylumbelliferone

Source: *Lomatium* sp. oil ex Vasu Dev



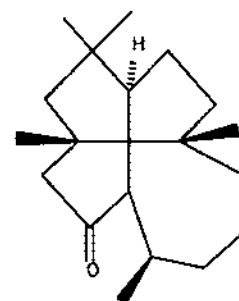
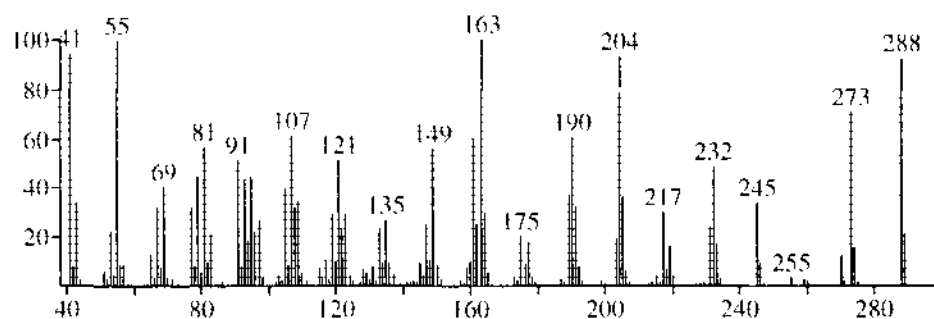
RT: 50.96 AI: 2115 KI: 2116 **Laurenan-2-one**

CAS#: 000-00-0 MF: C₂₀H₃₂O FW: 288 MSD LIB#: 983

CN: not assigned

Synonyms: none

Source: ref. cpd. ex Don Clark



RT: 51.23 AI: 2124 KI: 2125 **Methyl octadecanoate**

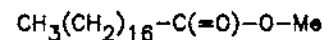
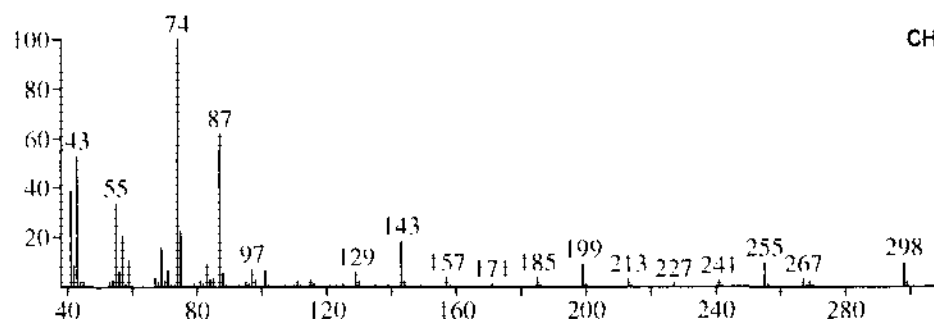
CAS#: 112-61-8 MF: C₁₉H₃₈O₂ FW: 298 MSD LIB#: 1104

CN: octadecanoic acid, methyl ester

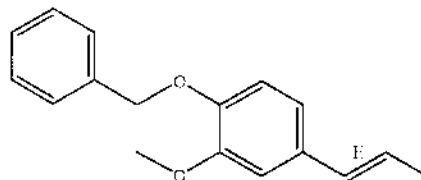
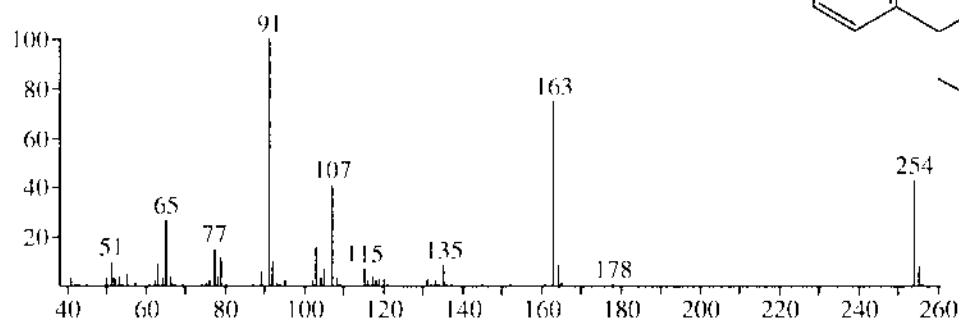
Synonyms: methyl stearate

Source: ref. cpd. ex E. von Rudloff; 9.30% *Rheum palmatum*, FFJ 11:57(1996);

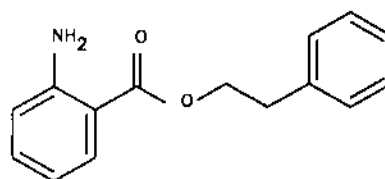
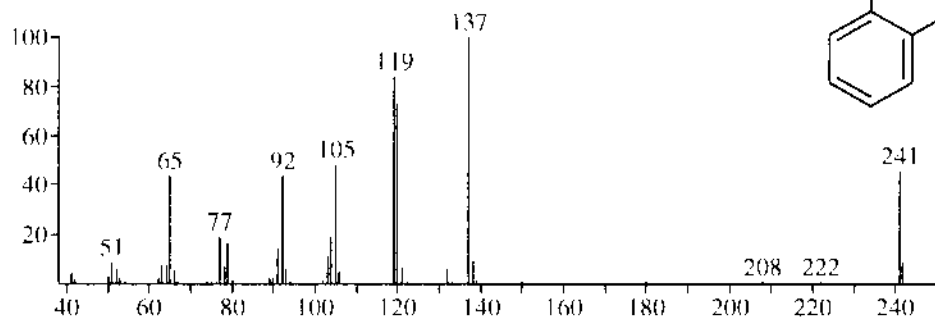
2.20% *Jasminum officinale*; 1.20% *Jasminum sambac*



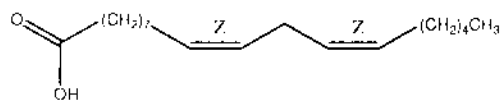
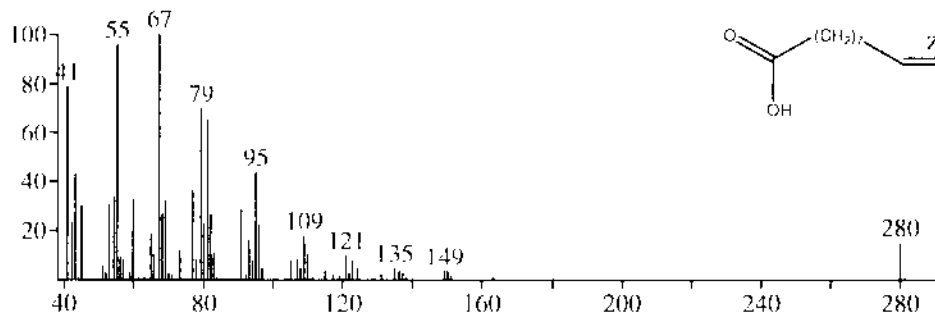
RT: 51.24 AI: 2125 KI: 2125 **Isoeugenyl benzyl ether <(E)->**
 CAS#: 92666-21-2 MF: C17 H18 O2 FW: 254 MSD LIB#: 1617
 CN: benzene, 2-methoxy-1-(phenylmethoxy)-4-(1-propenyl)-, (E)-
 Synonyms: none
 Source: Aldrich Chem.



RT: 51.28 AI: 2126 KI: 2126 **Phenyl ethyl anthranilate <2->**
 CAS#: 133-18-6 MF: C15 H15 N O2 FW: 241 MSD LIB#: 1276
 CN: benzoic acid, 2-amino-, 2-phenylethyl ester
 Synonyms: benzylcarbonyl anthranilate
 Source: K & K Chem. ex A. Tucker



RT: 51.47 AI: 2132 KI: 2133 **Linoleic acid**
 CAS#: 60-33-3 MF: C18 H32 O2 FW: 280 MSD LIB#: 1744
 CN: 9,12-octadecadienoic acid <Z,Z>-
 Synonyms: none
 Source: ref. epd. ex E. von Rudloff; 29.00% *Viola odorata*, Phytochem. 31:571(1992);
 13.59% *Elaeagnus angustifolia*; 8.70% *Osmanthus fragrans*



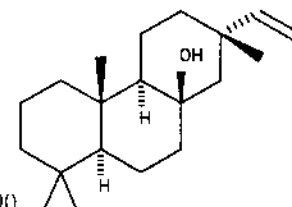
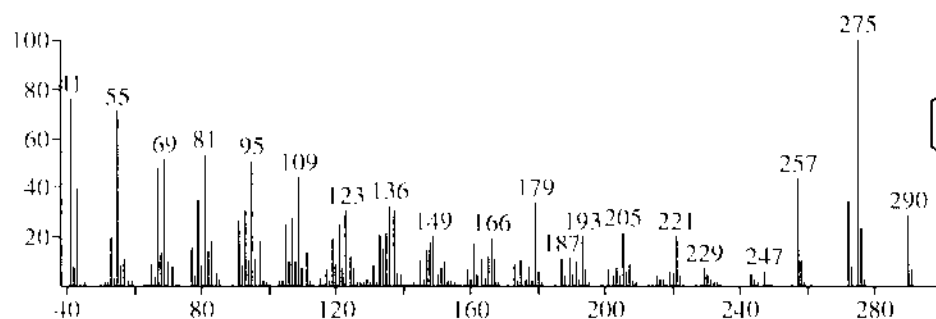
RT: 51.47 AI: 2132 KI: 2133 **Nezukol**

CAS#: 14699-32-2 MF: C₂₀H₃₄O FW: 290 MSD LIB#: 1462

CN: 8a(2H) phenanthrenol, 7-ethenyldodecahydro-1,1,4a,7-tetramethyl-,
(4aS-(4aα,4bβ,7β,8aα,10aβ))-

Synonyms: 8-β-podocarpan-8-ol, 13-β-methyl-13-vinyl-, sandaracopimar-15-en-8-β-ol

Source: *Taxodium distichum* wood oil ex R. Schuffrahn



RT: 51.72 AI: 2140 KI: 2141 **Osthole**

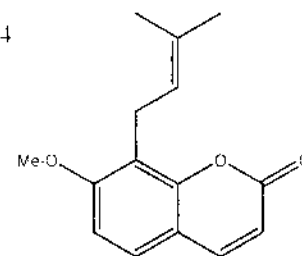
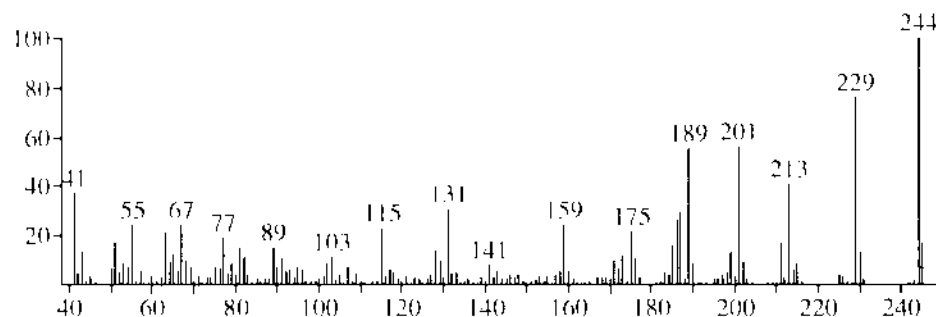
CAS#: 484-12-8 MF: C₁₅H₁₆O₃ FW: 244 MSD LIB#: 155

CN: 2H-1 benzopyran-2-one, 7-methoxy-8-(3-methyl-2-butenyl)-

Synonyms: ostol; osthol; 7-methoxy-8-isopentenylcoumarin; 8-(3-methyl-2-butenyl)herniarin

Source: *Angelica archangelica* oil ex J.-C. Chalchat & R.P. Garry, France; 8.45% *Angelica archangelica*.

J. Agric. Food Chem. 42:1979(1994); 0.20% *Citrus aurantium*



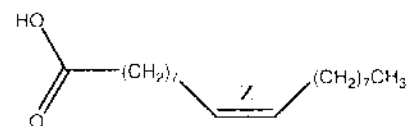
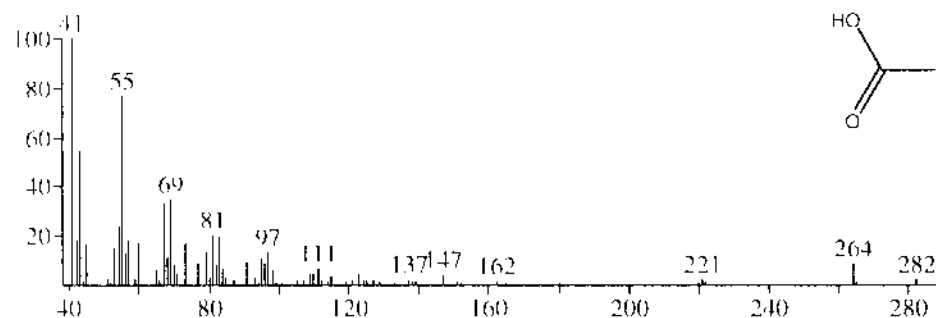
RT: 51.75 AI: 2141 KI: 2142 **Oleic acid**

CAS#: 112-80-1 MF: C₁₈H₃₄O₂ FW: 282 MSD LIB#: 1753

CN: 2-octadec-9Z-enoic acid

Synonyms: none

Source: ref. cpd. ex E. von Rudloff



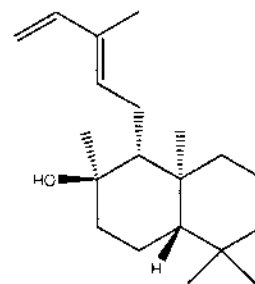
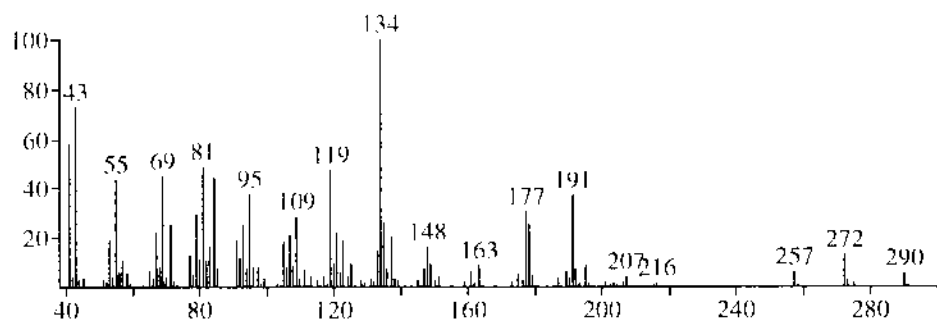
RT: 51.98 AI: 2149 KI: 2149 **Abienol**

CAS#: 1616-86-0 MF: C₂₀H₃₄O FW: 290 MSD LIB#: 1760

CN: 2-naphthalenol, decahydro-2,5,5,8a-tetramethyl-1-(3-methyl-2,4-pentadienyl)-, (1R-(1 α ,2 β ,4 β ,8 α))-

Synonyms: labda-12,14-dien-8-ol

Source: *Picea abies* ex. Jonathan Gershenzon



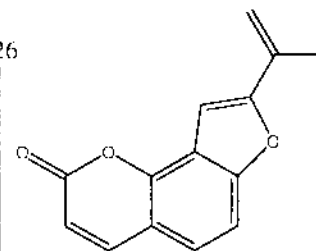
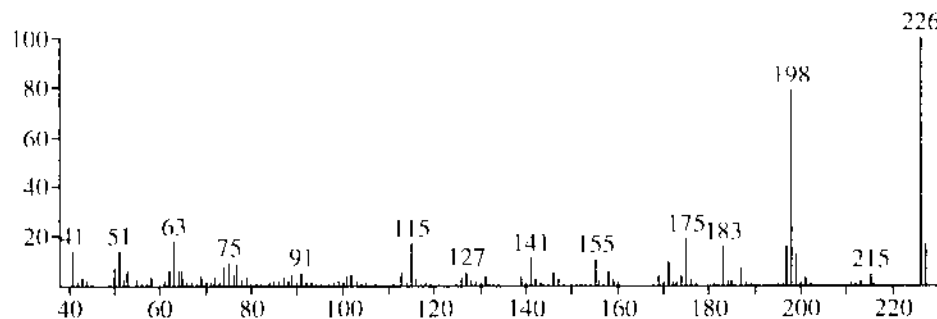
RT: 52.08 AI: 2152 KI: 2153 **Oroselone**

CAS#: 1760-27-6 MF: C₁₄H₁₀O₃ FW: 226 MSD LIB#: 156

CN: 2H-furo(2,3-b)1-benzopyran-2-one, 8-(1-methylethenyl)-

Synonyms: 5'-isopropenylangelicin

Source: *Angelica archangelica* oil ex J-C Chalchat & RP Garry, France



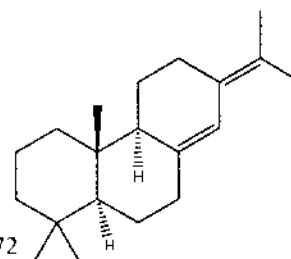
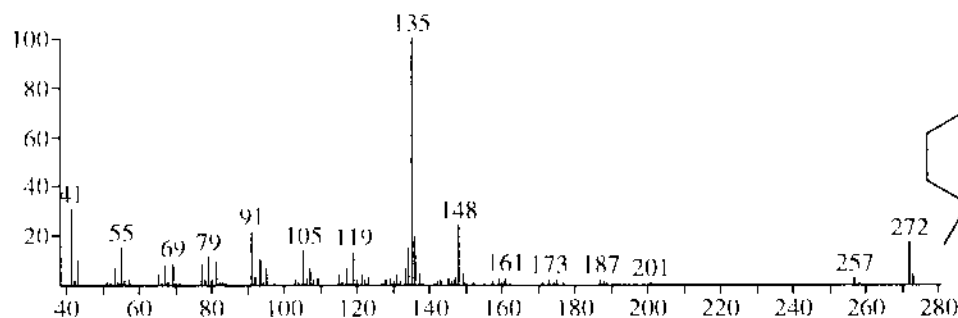
RT: 52.12 AI: 2153 KI: 2154 **Abieta-(8(14),13(15))-diene**

CAS#: 57119-12-7 MF: C₂₀H₃₂ FW: 272 MSD LIB#: 513

CN: phenanthrene, 1,2,3,4,4a,5,6,7,9,10,10a-dodecahydro-1,1,4a-trimethyl-7-(1-methylethylidene)-, (4aS,4bS,10aS)-

Synonyms: neo-abietadiene

Source: *Cupressus lusitanica* oil ex. Larry Cool



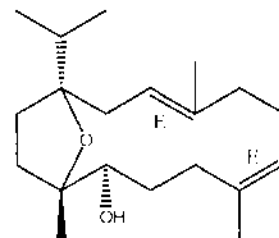
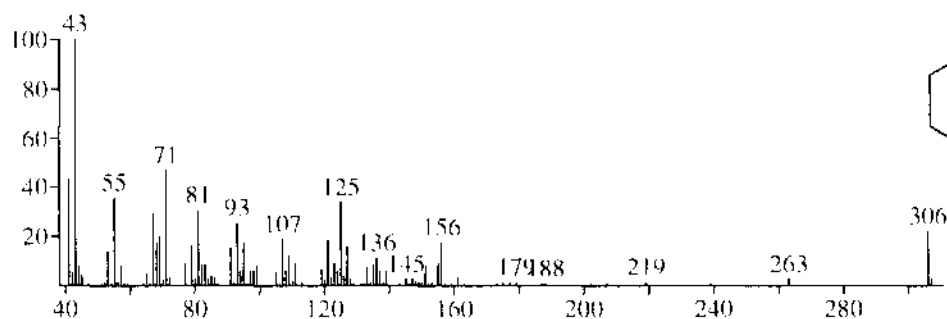
RT: 52.26 AI: 2158 KI: 2159 **Incensole**

CAS#: 22419-74-5 MF: C₂₀H₃₄O₂ FW: 306 MSD LIB#: 721

CN: 15-oxabicyclo[10.2.1]pentadeca-5,9-dien-2-ol, 1,5,9-trimethyl-12-(1-methylethyl)-, (1R*,2S*,5E,9E,12S*)-

Synonyms: none

Source: frankincense oil ex Xiaobing Yu



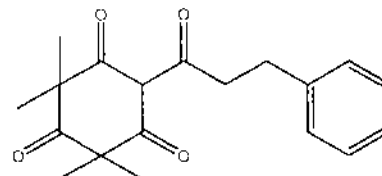
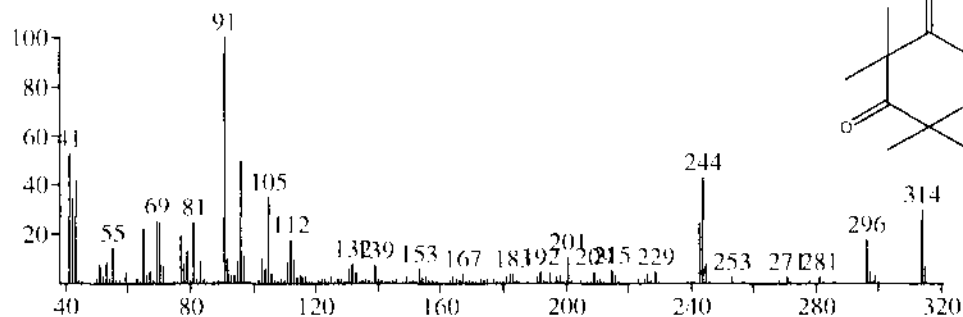
RT: 52.76 AI: 2174 KI: 2175 **Grandiflorene**

CAS#: 50861-53-5 MF: C₁₉H₂₂O₄ FW: 314 MSD LIB#: 999

CN: 1,3,5-cyclohexanetrione, 2,2,4,4-tetramethyl-6-(1-oxo-3-phenylpropyl)-

Synonyms: none

Source: *Leptospermum morrisonii* oil ex JJ Brophy



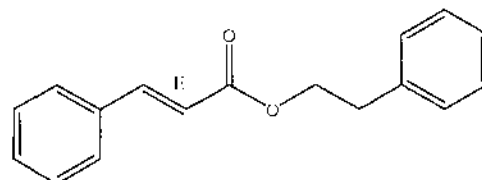
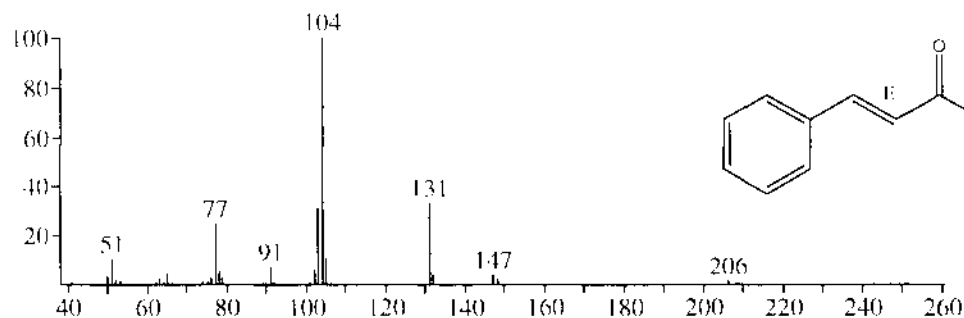
RT: 52.90 AI: 2179 KI: 2179 **Phenethyl cinnamate**

CAS#: 103-53-7 MF: C₁₇H₁₆O₂ FW: 252 MSD LIB#: 1267

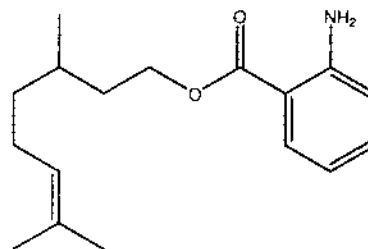
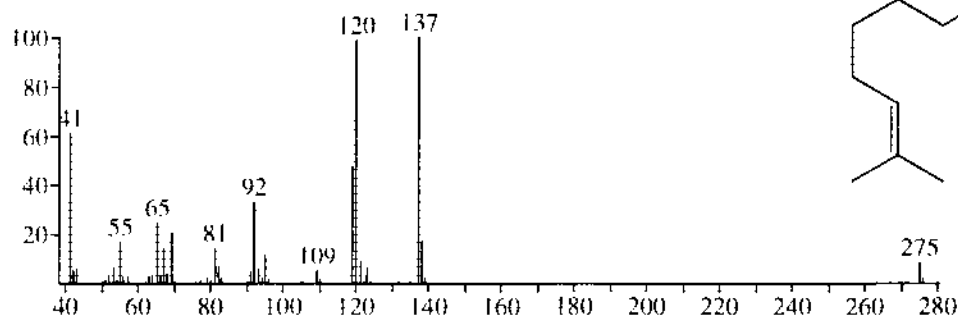
CN: 2-propenoic acid, 3-phenyl, 2-phenylethyl ester

Synonyms: cinnamic acid, phenethyl ester

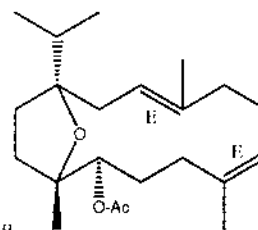
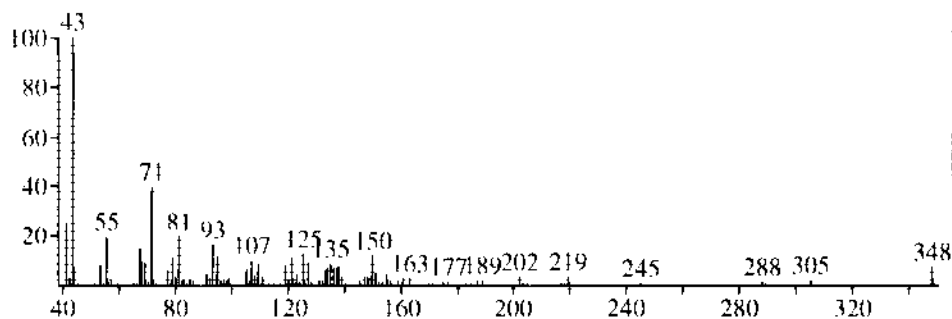
Source: Aldrich Chem.



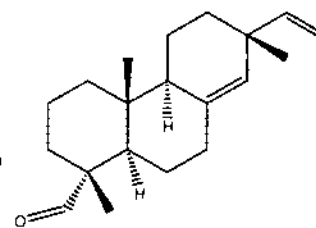
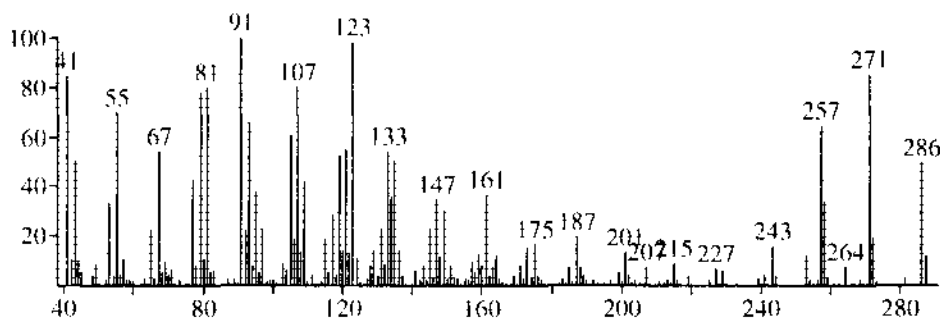
RT: 52.93 AI: 2180 KI: 2180 **Citronellyl anthranilate**
 CAS#: 68555-57-7 MF: C₁₇H₂₅N O₂ FW: 275 MSD LIB#: 455
 CN: 6-octen-1-ol, 3,7-dimethyl-, 2-aminobenzoate
 Synonyms: none
 Source: Bedoukian Res. ex Art Tucker



RT: 53.05 AI: 2184 KI: 2184 **Incensole acetate**
 CAS#: 34701-53-6 MF: C₂₂H₃₆O₃ FW: 348 MSD LIB#: 722
 CN: 15-oxabicyclo[10.2.1]pentadeca-5,9-dien-2-ol, 1,5,9-trimethyl-12-(1-methylethyl)-, acetate, (1R*,2S*,5E,9E,12S*)-
 Synonyms: none
 Source: frankincense oil ex Xiaobing Yu



RT: 53.06 AI: 2184 KI: 2184 **Sandaracopimarinal**
 CAS#: 3855-14-9 MF: C₂₀H₃₀O FW: 286 MSD LIB#: 492
 CN: 1-phenanthrenecarboxaldehyde, 7-ethenyl-1,2,3,4,4a,5,6,7,9,10,10a-dodecahydro-1,4a,7-trimethyl-, (1R-(1a,4aβ,4ba,7a,10aα))-
 Synonyms: isodextropimaraldehyde; sandaracopimaradien-18-al
 Source: *Cryptomeria japonica* wood oil ex S Nagahama, Japan



RT: 53.22 AI: 2189 KI: 2189 **Docosene <1->**

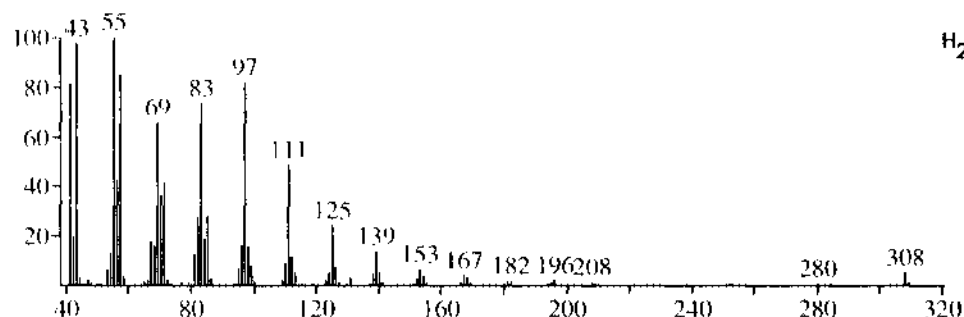
CAS#: 1599-67-3 MF: C₂₂H₄₄ FW: 308 MSD LIB#: 1218

CN: docosene (1-)

Synonyms: none

Source: olefins mix, Aldrich and Sigma Chem. 0.80% *Thymus pulegioides*,

J. Ag. Food Chem., 44:1327(1996)



RT: 53.43 AI: 2196 KI: 2196 **Ethyl octadecanoate**

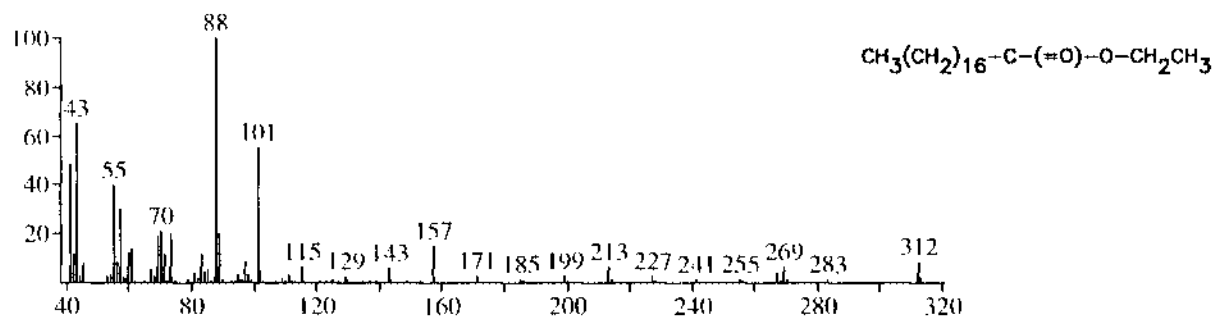
CAS#: 111-61-5 MF: C₂₀H₄₀O₂ FW: 312 MSD LIB#: 677

CN: octadecanoic acid, ethyl ester

Synonyms: ethyl stearate

Source: Aldrich Chem.; 3.67% *Spartium junceum*, paper #142, 8th Intl. Ess. Oil Cong.,

Cannes(1980); 2.10% *Coriandrum sativum*; 0.87% *Citrus reticulata*



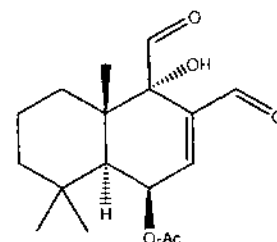
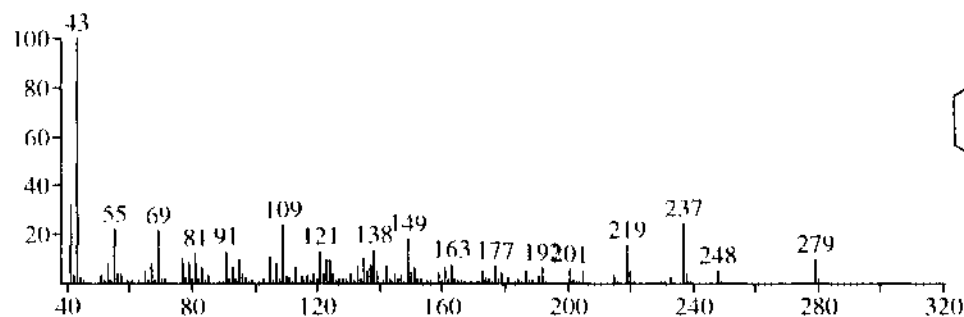
RT: 53.50 AI: 2198 KI: 2198 **Ugandensidial**

CAS#: 23599-45-3 MF: C₁₇H₂₄O₅ FW: 308 MSD LIB#: 1830

CN: 1,2-naphthalenedicarboxaldehyde, 4-(acetyloxy)-1,4,4a,5,6,7,8,8a-octahydro-1-hydroxy-5,5,8a-trimethyl-, (1S,4R,4aS,8aS)-

Synonyms: Cinnamodial, Agandensidial

Source: *Cinnamodendron corticosum*, ex Helen Jacobs, Jamaica



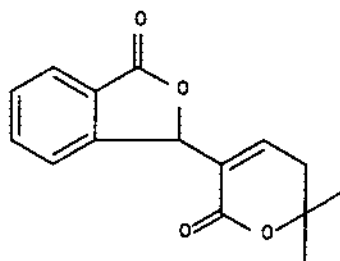
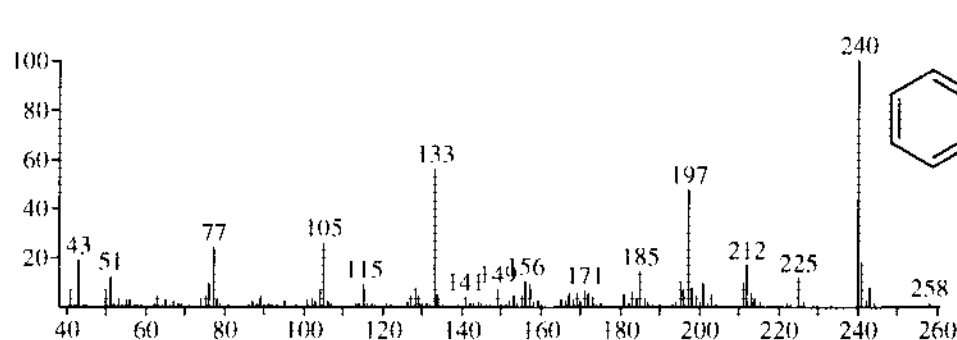
RT: 53.53 AI: 2199 KI: 2199 **Catalpalactone**

CAS#: 1585-68-8 MF: C₁₅H₁₄O₄ FW: 258 MSD LIB#: 390

CN: 1-(3H)-isobenzofuranone, 3-(5,6-dihydro-6,6-dimethyl-2-oxo-2H-pyran-3-yl)-

Synonyms: none

Source: Catalpa heartwood oil ex CA McDaniel



RT: 53.54 AI: 2200 KI: 2200 **Docosane <n->**

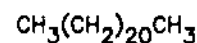
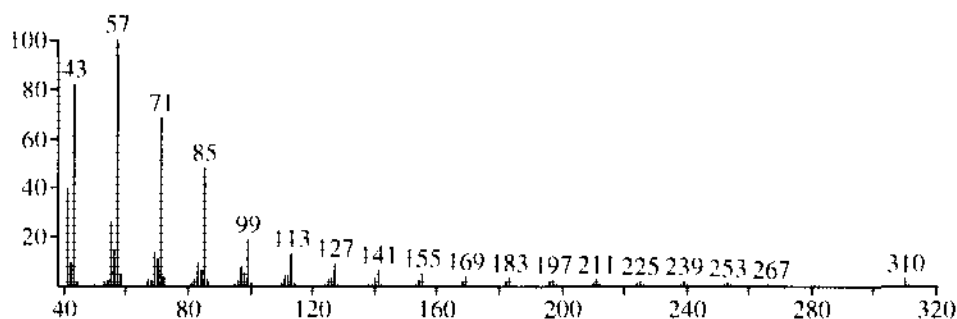
CAS#: 629-97-0 MF: C₂₂H₄₆ FW: 310 MSD LIB#: 104

CN: docosane

Synonyms: none

Source: Alkanes mix, Alltech Assoc.; 2.20% *Nicotiana forgetiana* (flower),

JEOR 7:265(1995); 1.40% *Fragaria x ananassa*; 0.70% *Zingiber zerumbet*



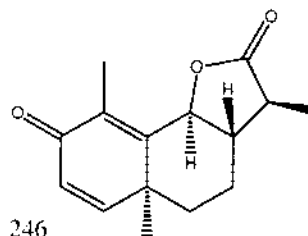
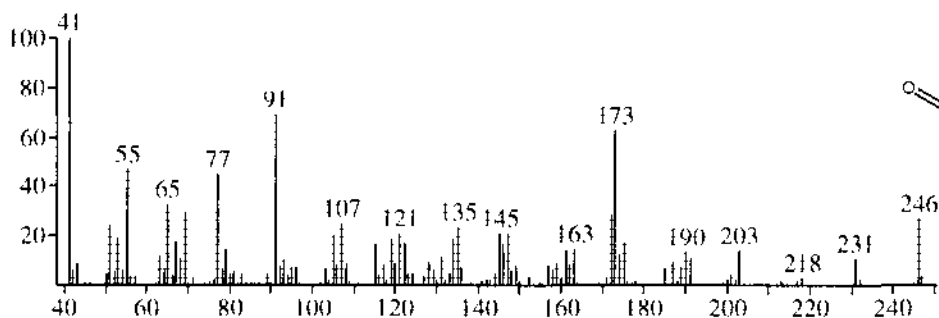
RT: 53.65 AI: 2203 KI: 2203 **Santonine <α->**

CAS#: 481-06-1 MF: C₁₅H₁₈O₃ FW: 246 MSD LIB#: 1399

CN: naphtho(1,2-b)furan-2,8(3H,4H)-dione, 3a,5,5a,9b-tetrahydro-3,5a,9-trimethyl-, (3S-(3a,3aa,5aβ,9bβ))-

Synonyms: santonin; semenon

Source: Fluka ex H Hills



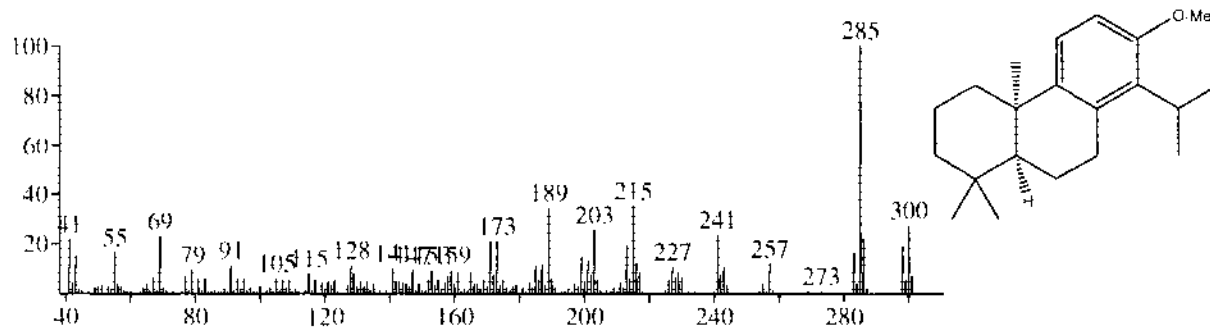
RT: 53.78 AI: 2208 KI: 2208 **Totarol <cis->, methyl ether**

CAS#: 70905-78-1 MF: C₂₁H₃₂O FW: 300 MSD LIB#: 1500

CN: phenanthrene, 1,2,3,4,4a,9,10,10a-octahydro-7-methoxy-1,1,4a-trimethyl-8-(1-methylethyl)-, (4aR-cis)-

Synonyms: none

Source: *Thujopsis dolabrata*, diterpenes, S. Nagahama, Japan



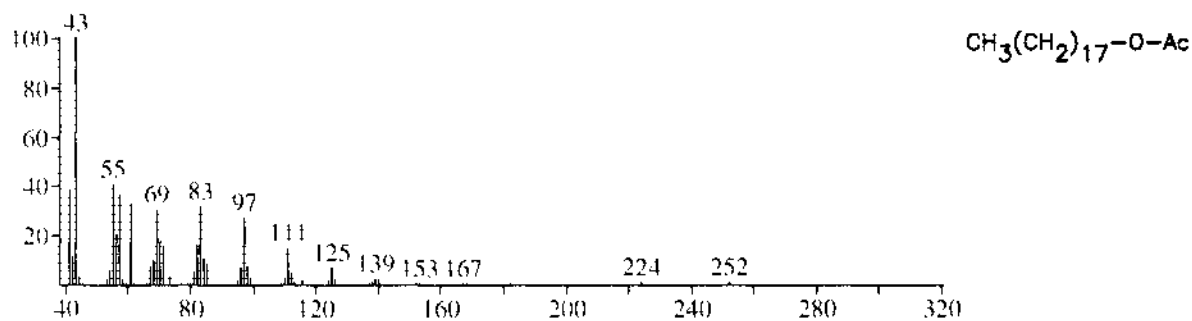
RT: 53.82 AI: 2209 KI: 2209 **Octadecanol acetate**

CAS#: 822-23-1 MF: C₂₀H₄₀O₂ FW: 312 MSD LIB#: 1200

CN: acetic acid, octadecyl ester

Synonyms: stearyl acetate

Source: ref. cpd. ex E. von Rudloff



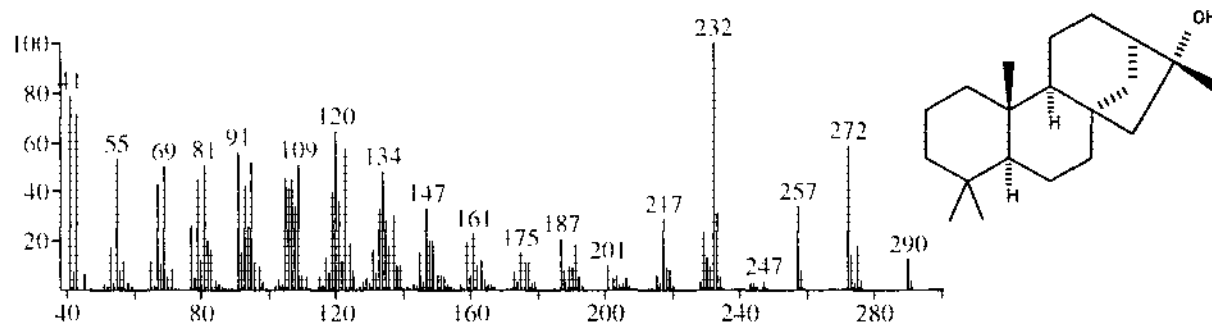
RT: 53.83 AI: 2209 KI: 2210 **Phyllocladanol**

CAS#: 27898-42-6 MF: C₂₀H₃₄O FW: 290 MSD LIB#: 1293

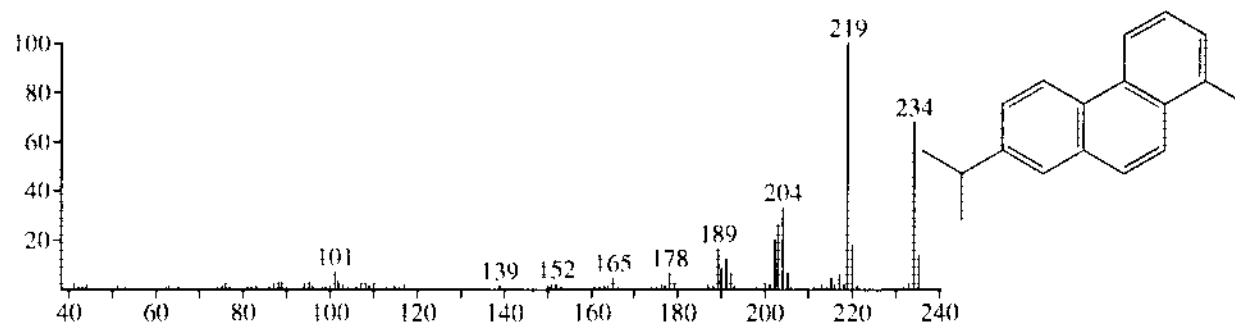
CN: kauran-16-ol, (5α,9α,10β)-

Synonyms: phyllocladan-16-α-ol

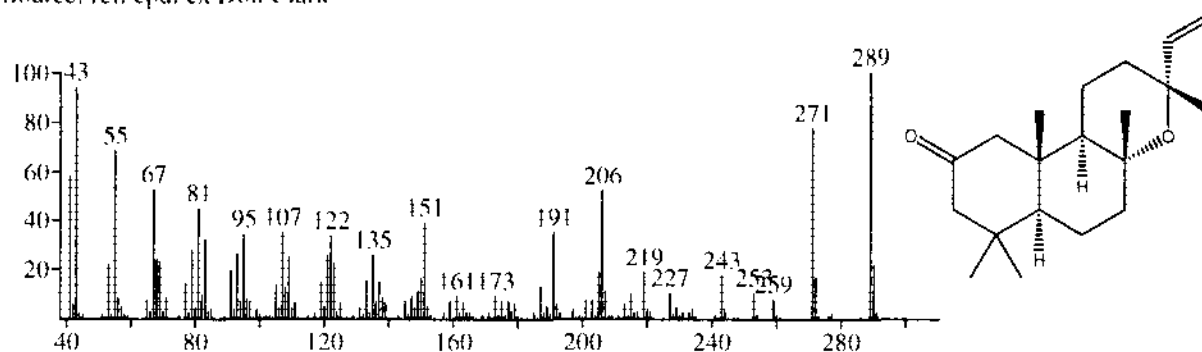
Source: ref. cpd. ex E. von Rudloff



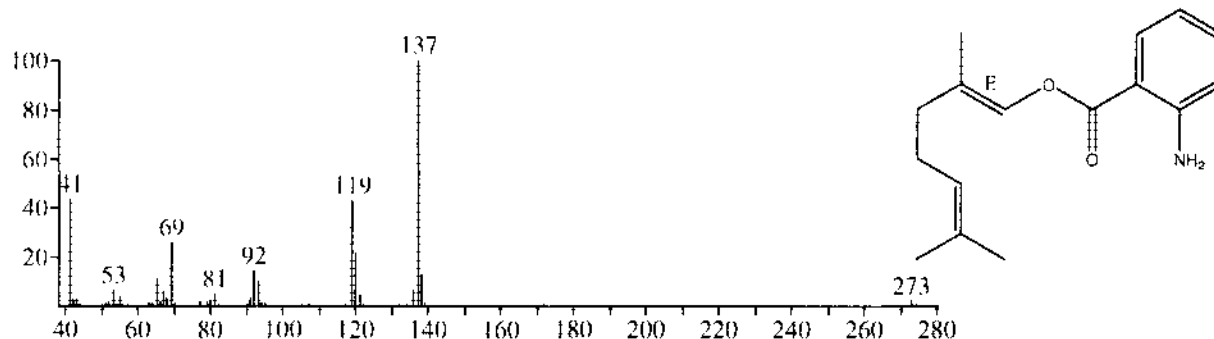
RT: 53.96 AI: 2214 KI: 2214 **Retene**
 CAS#: 483-65-8 MF: C₁₈H₁₈ FW: 234 MSD LIB#: 1356
 CN: phenanthrene, 1-methyl-7-(1-methylethyl)-
 Synonyms: none
 Source: ref. cpd. ex Walter Cretney, BC, Canada



RT: 54.02 AI: 2216 KI: 2216 **Manool oxide <2-keto->**
 CAS#: 1231-34-1 MF: C₂₀H₃₂O₂ FW: 304 MSD LIB#: 1050
 CN: 9H-naphtho[2,1-b]pyran-9-one, 3-ethenyldodecahydro-3,4a,7,7,10a-pentamethyl-,
 (3R-(3a,4aβ,6aa,10aβ,10ba))-
 Synonyms: labd-14-en-2-one,8,13-epoxy-, (13R)-; 2-oxomanoyl oxide
 Source: ref. cpd. ex Don Clark



RT: 54.04 AI: 2217 KI: 2217 **Geranyl anthranilate**
 CAS#: 67874-69-5 MF: C₁₇H₂₃N O₂ FW: 273 MSD LIB#: 2188
 CN: 2,6-octadien-1-ol, 3,7-dimethyl-, 2-aminobenzoate, (2E)-
 Synonyms: anthranilic acid, geraniol ester
 Source: Bedoukian Res.



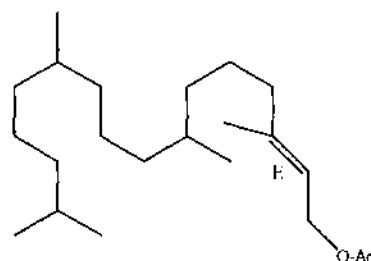
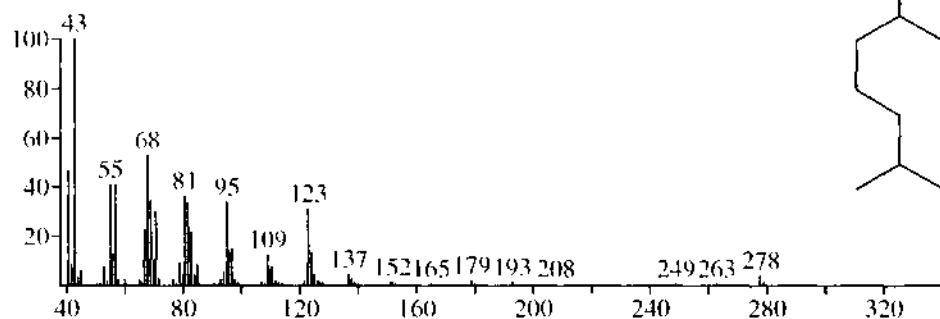
RT: 54.07 AI: 2218 KI: 2218 **Phytol acetate <(E)->**

CAS#: 10236-16-5 MF: C₂₂H₄₂O₂ FW: 338 MSD LIB#: 1294

CN: 2-hexadecen-1-ol, 3,7,11,15-tetramethyl-, acetate (R-(R*,R*-(E)))-

Synonyms: phytol acetate, trans-

Source: ref. cpd. ex E. von Rudloff



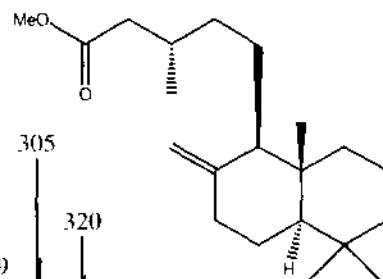
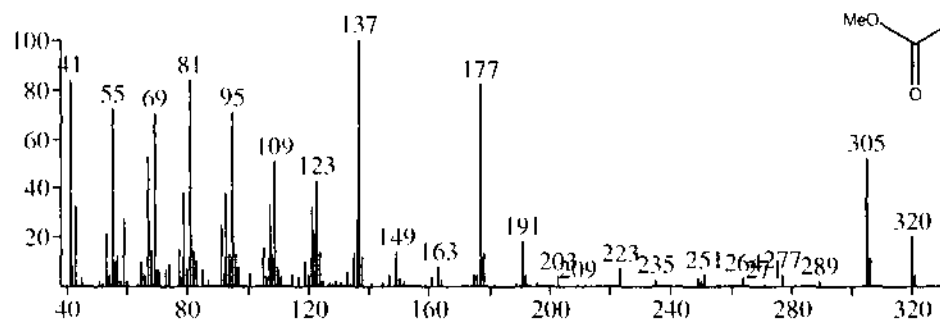
RT: 54.15 AI: 2220 KI: 2221 **Methyl eperuate**

CAS#: 13008-80-5 MF: C₂₁H₃₆O₂ FW: 320 MSD LIB#: 1884

CN: 1-naphthalenepentanoic acid, decahydro- β ,5,5,8a-tetramethyl-2-methylene-, methyl ester, (1R,1R,4aR,8aR)-

Synonyms: 5 β ,9 β H,10 α -labd-8(20)-en-15-oic acid, methyl ester: eperuic acid, methyl ester

Source: ref. cpd. ex Joaquin Altarejos



RT: 54.21 AI: 2222 KI: 2223 **Sclareol**

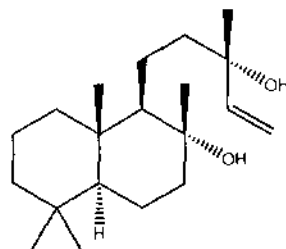
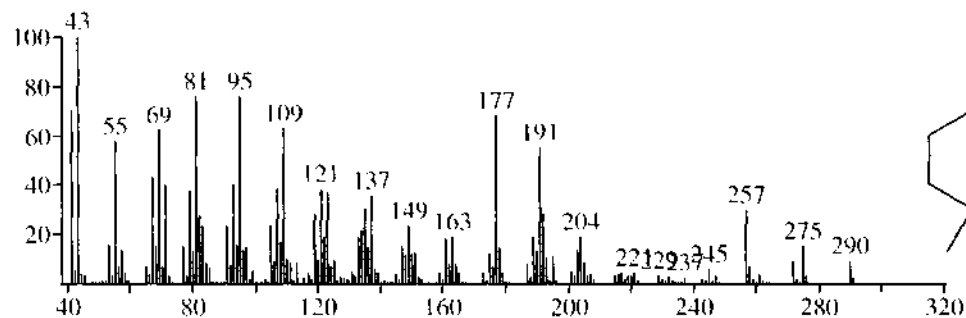
CAS#: 515-03-7 MF: C₂₀H₃₆O₂ FW: 308 MSD LIB#: 1403

CN: 1-naphthalenepropanol, α -ethenyldecahydro-2-hydroxy- α ,2,5,5,8a-pentamethyl-, (1R-(1 α (R*),2 β ,4 $\alpha\beta$,8 $\alpha\alpha$))-

Synonyms: labd-14-ene-8,13-diol, (13R)-

Source: ref. cpd. ex Brian Lawrence; 3.10% *Salvia sclarea* (flower),

Sci. Aliment. 8:489(1988); 0.80% *Vitex agnus-castus*; 0.35% *Salvia sclarea* (leaf)



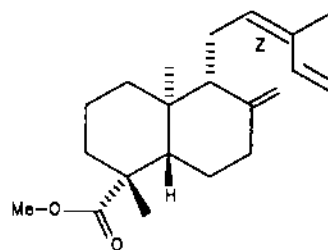
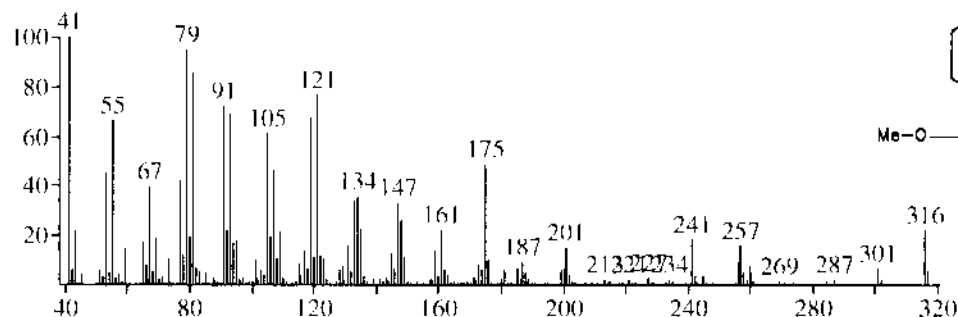
RT: 54.47 AI: 2231 KI: 2232 **Methyl communate <(Z)->**

CAS#: 10178-35-5 MF: C₂₁H₃₂O₂ FW: 316 MSD LIB#: 1089

CN: 1-naphthalenecarboxylic acid, decahydro-1,4a-dimethyl-6-methylene-5-(3-methyl-2,4-pentadienyl)-, methyl ester, (1S-(1 α ,4 α ,5 α (Z),8 α))-

Synonyms: labda 8(20),12,14-trien-19-oic acid, methyl ester, (Z)-

Source: ref. cpd. ex FS El-Ferally, Saudi Arabia



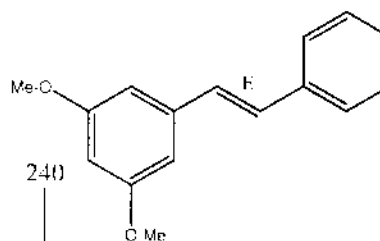
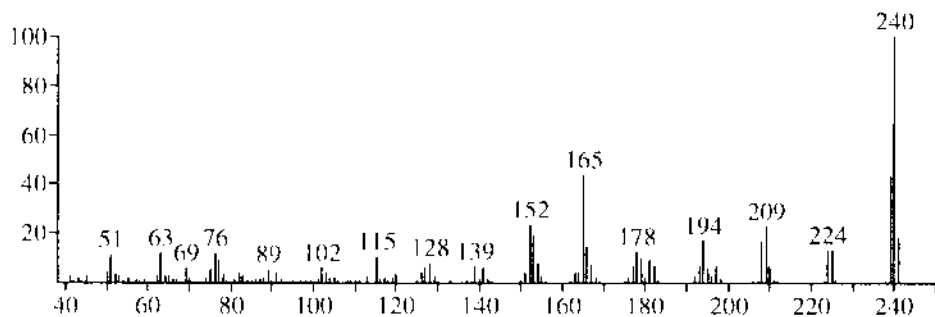
RT: 54.49 AI: 2232 KI: 2232 **Stilbene <3,5-dimethoxy->**

CAS#: 21956-56-9 MF: C₁₆H₁₆O₂ FW: 240 MSD LIB#: 1435

CN: benzene, 1,3-dimethoxy-5-((E)-2-phenylethenyl)-

Synonyms: trans-pinosylvin, dimethyl ether

Source: ref. cpd. ex Francois-Xavier Garneau, Quebec



RT: 54.63 AI: 2237 KI: 2237 **Isopimpinellin**

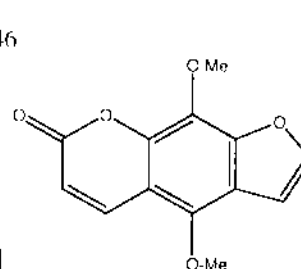
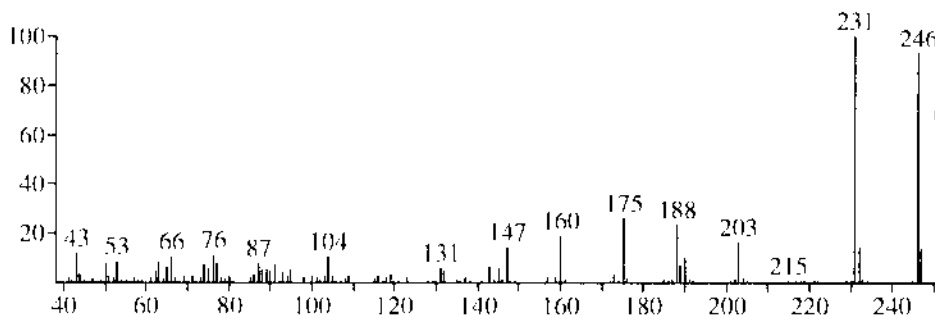
CAS#: 482-27-9 MF: C₁₃H₁₀O₅ FW: 246 MSD LIB#: 157

CN: 7H-furo(3,2-g)benzopyran-7-one, 4,9-dimethoxy-

Synonyms: 5,8-dimethoxy-6,7-furanocoumarin; 5,8-dimethoxypsoralen

Source: *Angelica archangelica* oil ex JC Chalchat & RP Garry; 0.50% *Petroselinum crispum*, in: Strukturaufklärung wertgebender Inhaltsstoffe aus Petersilienblättern, M. Spraul,

Ph.D. Thesis, Techno. Univ. Munich (1991); 0.20% *Petroselinum sativum*



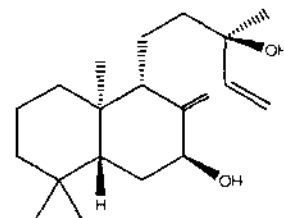
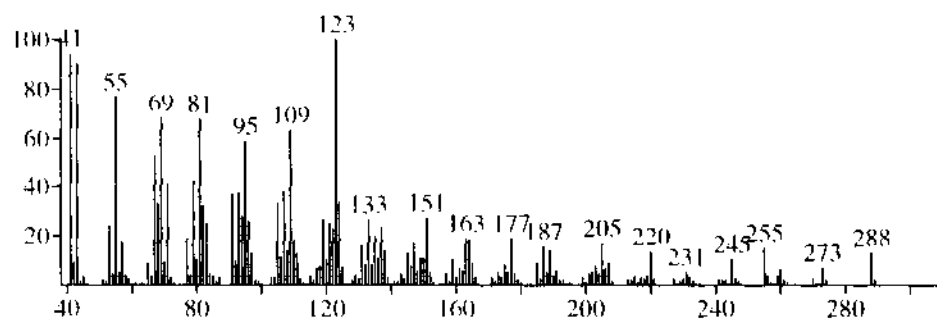
RT: 54.63 AE: 2237 KI: 2237 **Manool <7- α -hydroxy->**

CAS#: 24583-54-8 MF: C₂₀H₃₄O₂ FW: 306 MSD LIB#: 1044

CN: 1-naphthalenepropanol, α -ethenyldecahydro-3-hydroxy- α ,5,5,8a-tetramethyl-2-methylene- (4R,1R,3R,4aS,8aS)-

Synonyms: none

Source: Alfred Bader Chem. ex E. von Rudloff



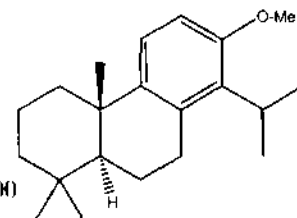
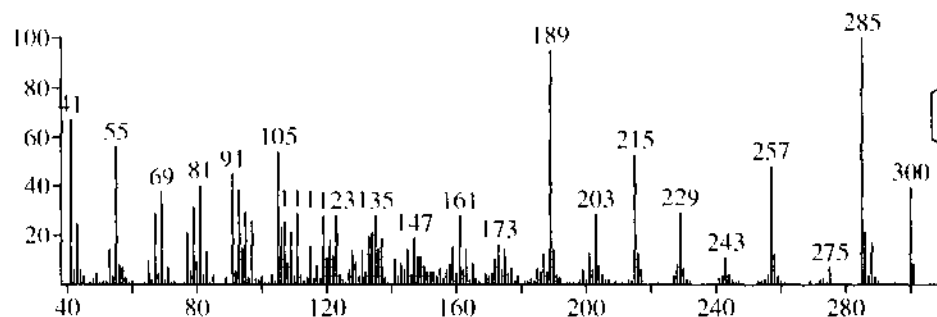
RT: 54.63 AE: 2237 KI: 2237 **Totarol <trans->, methyl ether**

CAS#: 15340-83-7 MF: C₂₁H₃₂O FW: 300 MSD LIB#: 1501

CN: phenanthrene, 1,2,3,4,4a,9,10,10a-octahydro-7-methoxy-1,1,4a-trimethyl-8-(1-methylethyl)-, (4aS,10aS)-

Synonyms: none

Source: *Thujaopsis dolabrata*, diterpenes, S. Nagahama, Japan



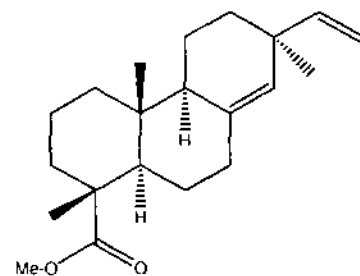
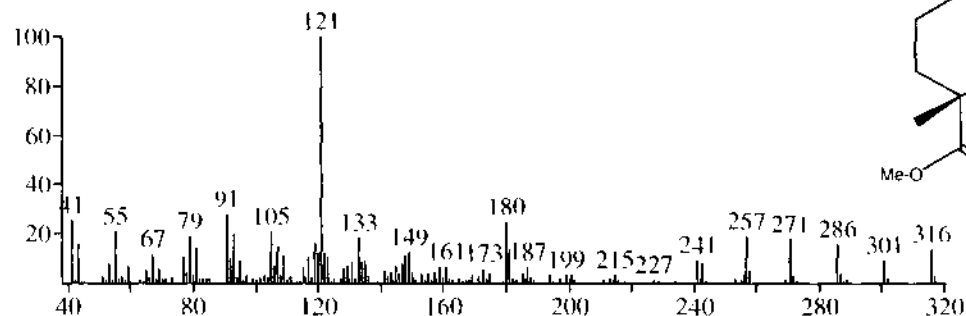
RT: 54.65 AE: 2237 KI: 2238 **Methyl pimarate**

CAS#: 3730-56-1 MF: C₂₁H₃₂O₂ FW: 316 MSD LIB#: 1761

CN: 1-phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,9,10,10a-dodecahydro-1,4a,7-trimethyl-, methyl ester (1R,4aR,4bS,7S,10aR)-

Synonyms: podocarp-8(14)-en-15-oic acid, 13 α -methyl-13-vinyl-, methyl ester

Source: *Picea abies* ex Jonathan Gershenzon



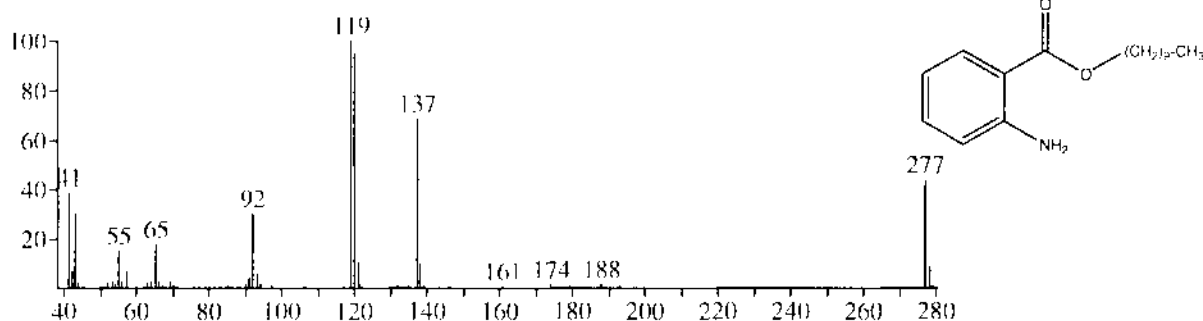
RT: 54.75 AI: 2241 KI: 2241 **Decyl anthranilate**

CAS#: 18189-07-6 MF: C₁₇H₂₇N O₂ FW: 277 MSD LIB#: 2187

CN: benzoic acid, 2-amino-, decyl ester

Synonyms: none

Source: Bedoukian Res.



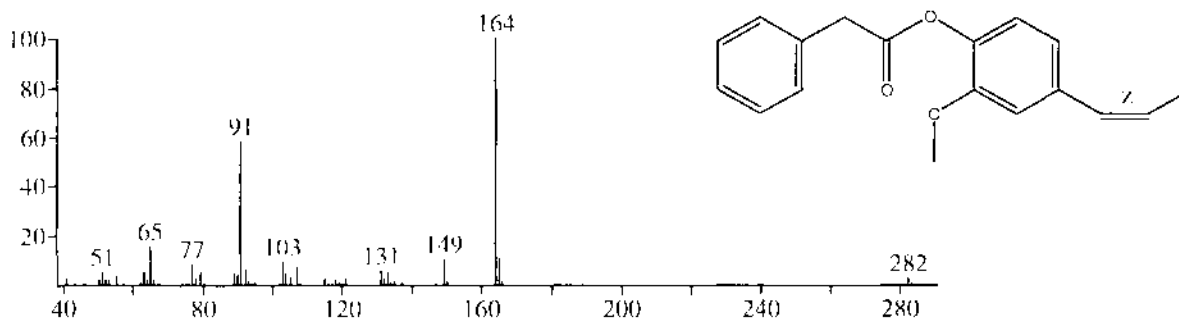
RT: 54.76 AI: 2241 KI: 2242 **Isoeugenyl phenylacetate <(Z)->**

CAS#: 000-00-0 MF: C₁₈H₁₈O₃ FW: 282 MSD LIB#: 1620

CN: benzeneacetic acid, 2-methoxy-4-((1Z)-propenyl)phenyl ester

Synonyms: none

Source: Aldrich Chem.



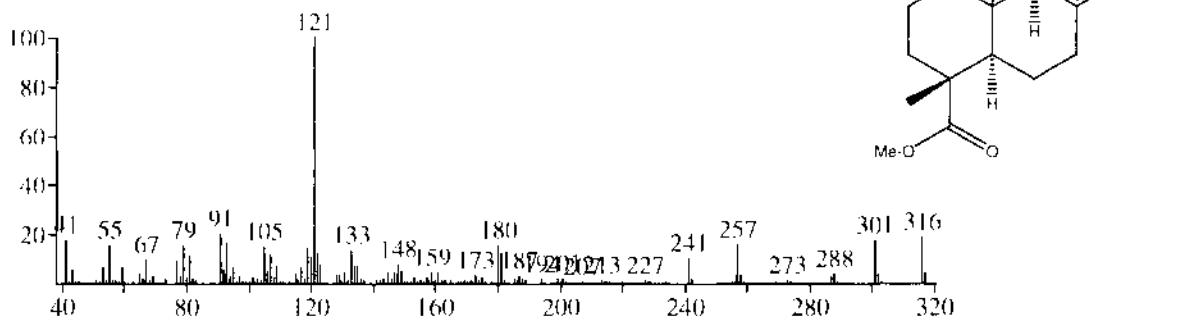
RT: 55.19 AI: 2256 KI: 2256 **Methyl sandaracopimarate**

CAS#: 1686-54-0 MF: C₂₁H₃₂O₂ FW: 316 MSD LIB#: 1762

CN: 1-phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,9,10,10a-dodecahydro-1,4a,7-trimethyl-, methyl ester, (1R,4aR,4bS,7R,10aR)-

Synonyms: podocarp-8(14)-en-oic acid, 13β-methyl-13-vinyl-, methyl ester

Source: *Picea abies* ex J. Gershenzon



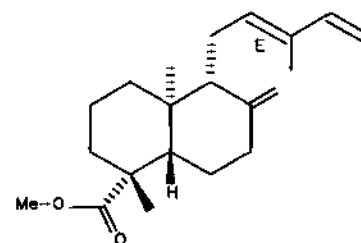
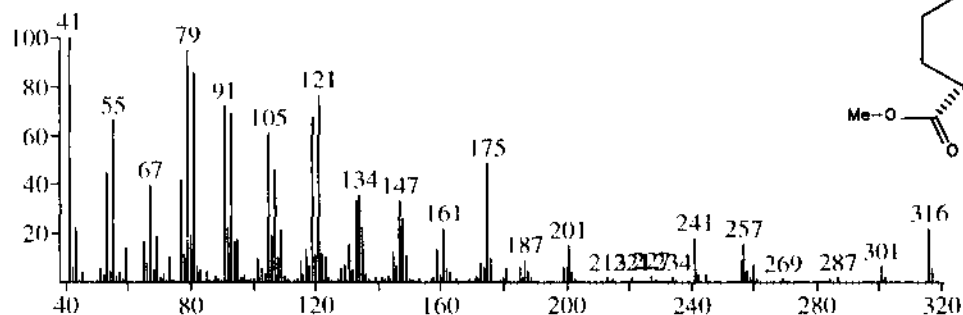
RT: 55.22 AI: 2257 KI: 2257 **Methyl communate <(E)->**

CAS#: 15798-13-7 MF: C₂₁H₃₂O₂ FW: 316 MSD LIB#: 1090

CN: 1-naphthalenecarboxylic acid, decahydro-1,4a-dimethyl-6-methylene-5-(3-methyl-2,4-pentadienyl)-, methyl ester, (1S-(1 α ,4 α ,5 α (E),8 α \beta))-

Synonyms: labda-8(20),12,14-trien-19-oic acid, methyl ester, (E)-

Source: ref. cpd. ex FS El-Feray, Saudi Arabia



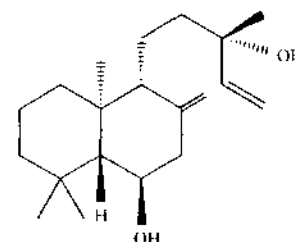
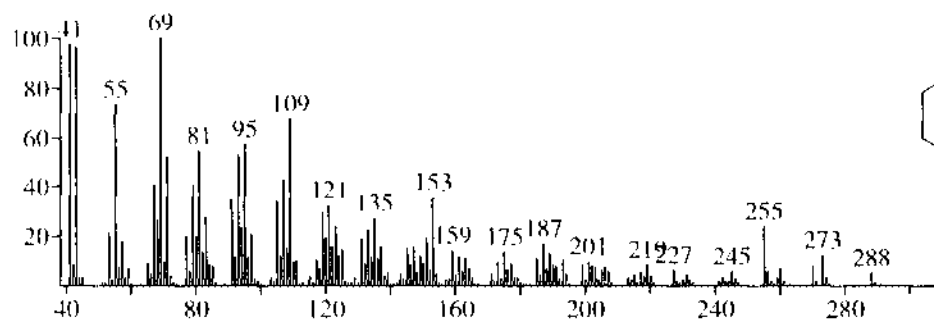
RT: 55.47 AI: 2265 KI: 2266 **Larixol**

CAS#: 1438-66-0 MF: C₂₀H₃₄O₂ FW: 306 MSD LIB#: 982

CN: 1-naphthalenepropanol, α -ethenyldecahydro-4-hydroxy- α ,5,5,8a-tetramethyl-2-methylene-, (1S-(1 α , (R*),4 β ,4 β ,8 α))-

Synonyms: labda-8(20),14-diene-6 α ,13-diol, (1S)-

Source: ref. cpd. ex E. von Rudloff



RT: 55.58 AI: 2269 KI: 2269 **Sandaracopimarinol**

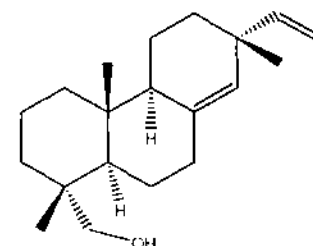
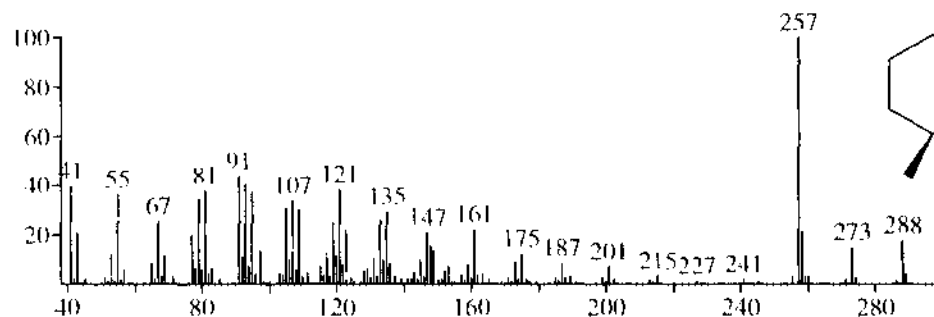
CAS#: 24563-84-6 MF: C₂₀H₃₂O FW: 288 MSD LIB#: 493

CN: 1-phenanthrenemethanol, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,9,10,10a-dodecahydro-1,4a,7-trimethyl-, (1R,4aR,4bS,7R,10aR)-

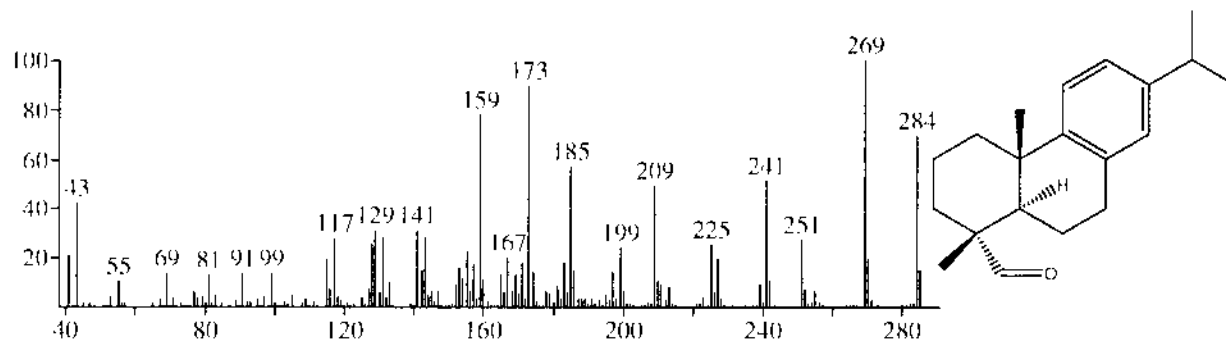
Synonyms: isopimarinol; 8(14),15-isopimaradien-18-ol;

sandaracopimaradienol

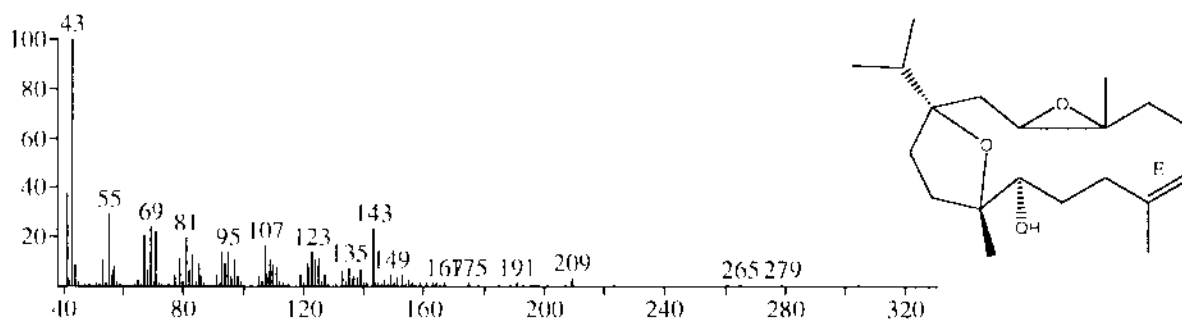
Source: *Cryptomeria japonica* wood oil ex S Nagahama, Japan



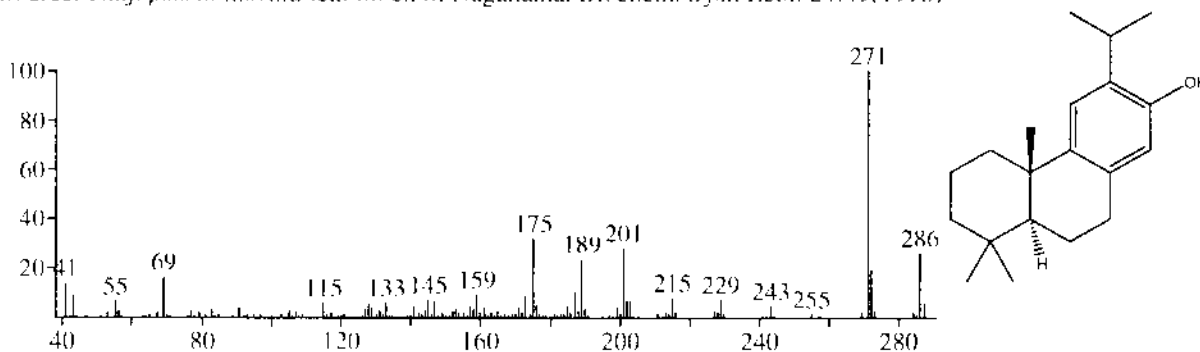
RT: 55.74 AI: 2274 KI: 2275 **Abietal <dehydro>**
 CAS#: 13601-88-2 MF: C₂₀H₂₈O FW: 284 MSD LIB#: 417
 CN: 1-phenanthrenecarboxaldehyde, 1,2,3,4,4a,9,10,10a-octahydro-
 1,4a-dimethyl-7-(1-methylethyl)-, (1R,4aS,10aR)-
 Synonyms: podocarpa-8,11,13-trien-15-al, 13-isopropyl-, dehydroabietinal
 Source: *Cedrus libani* resin ex H Hafizoglu, Turkey



RT: 55.88 AI: 2279 KI: 2280 **Incensole oxide**
 CAS#: 21698-66-8 MF: C₂₀H₃₄O₃ FW: 322 MSD LIB#: 723
 CN: 4,16-dioxatricyclo(11.2.1.0^{3,5})hexadec-8-en-12-ol, 5,9,13-trimethyl-1-(1-methylethyl)-
 Synonyms: none
 Source: frankincense oil ex Xiaohing Yu



RT: 55.98 AI: 2282 KI: 2283 **Sempervirol**
 CAS#: 1857-11-0 MF: C₂₀H₃₀O FW: 286 MSD LIB#: 1498
 CN: 2-phenanthrenol, 4b,5,6,7,8,8a,9,10-octahydro-4b,8,8-trimethyl-3-(1-methylethyl)-, (4bS,8aS)-
 Synonyms: podocarpa-8,11,13-trien-13-ol, 12-isopropyl-
 Source: *Thujopsis dolabrata* leaf oil ex S. Nagahama, Biochem. Syst. Ecol. 24:49(1996)

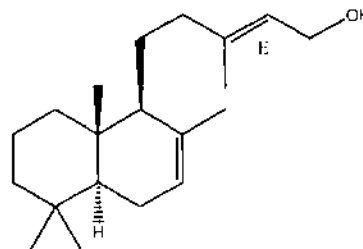
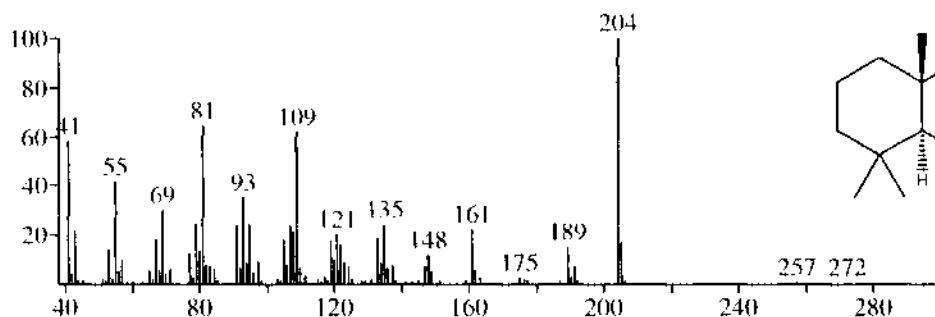


RT: 56.24 AI: 2291 KI: 2292 **Labd-7,13-dien-15-ol**CAS#: 87563-33-5 MF: C₂₀H₃₄O FW: 290 MSD LIB#: 1826

CN: 2-penten-1-ol, 3-methyl-5-((1S,4aS,8aS)-1,4,4a,5,6,7,8,8a-octahydro-2,5,5,8a-tetramethyl-1-naphthalenyl)-, (2E)-

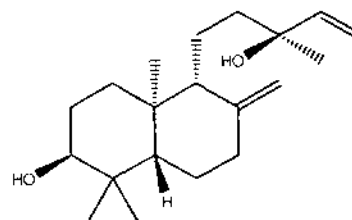
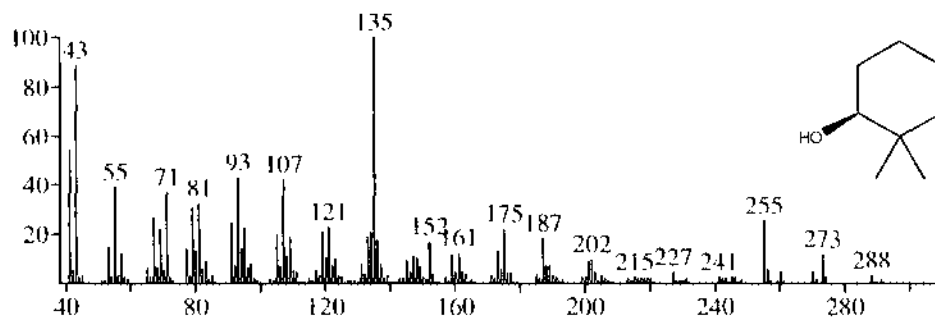
Synonyms: none

Source: ref. epd. ex Costos Demetrios

RT: 56.41 AI: 2297 KI: 2297 **Manool <3- α -hydroxy->**CAS#: 112239-38-0 MF: C₂₀H₃₄O₂ FW: 306 MSD LIB#: 1047CN: 1-naphthalenepropanol, α -ethenyldecahydro-6-hydroxy- α ,5,5,8a-tetramethyl-2-methylene-, (1 α (S*),4 α (S),6 β (S),8 α (S)-

Synonyms: 8(17),14-labdadiene-3R,13R-diol

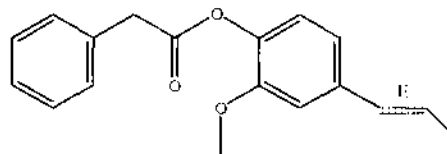
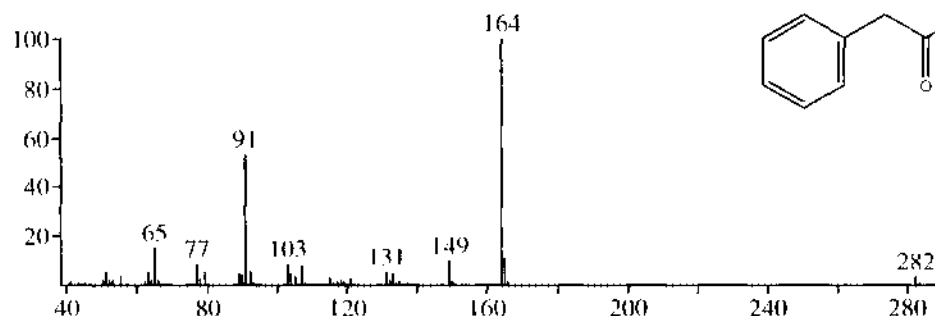
Source: ref. epd. ex RK Thappa, India.

RT: 56.42 AI: 2297 KI: 2298 **Isoeugenyl phenylacetate <(E)->**CAS#: 000-00-0 MF: C₁₈H₁₈O₃ FW: 282 MSD LIB#: 1619

CN: benzeneacetic acid, 2-methoxy-4-(1-propenyl)phenyl ester, (E)-

Synonyms: none

Source: Aldrich Chem.



RT: 56.42 AI: 2297 KI: 2298 **Methyl isopimarate**

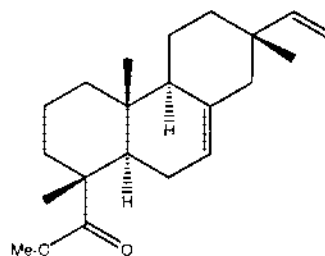
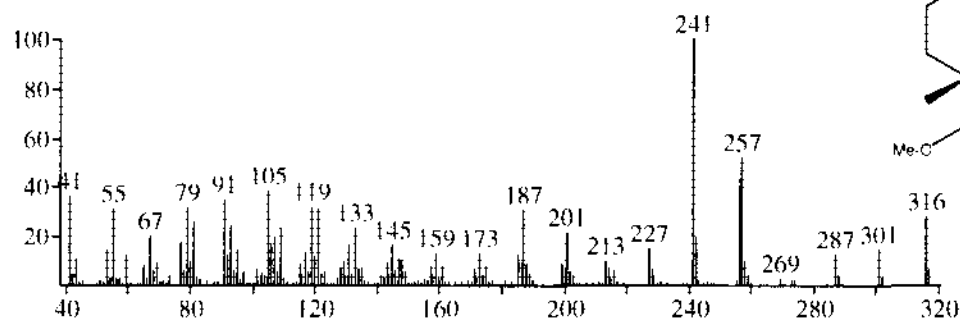
CAS#: 1686-62-0 MF: C₂₁H₃₂O₂ FW: 316 MSD LIB#: 1763

CN: 1-phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,8,10,10a-dodecahydro-1,

4a,7-trimethyl-,methyl ester,(1R,4aR,4bS,7S,10aR)-

Synonyms: Podocarp-8(14)-en-oic acid, 13β-methyl-13-vinyl-, methyl-ester

Source: *Picea abies* ex Jonathan Gershenzon



RT: 56.44 AI: 2298 KI: 2298 **Abietal <4-epi->**

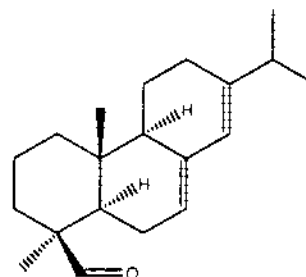
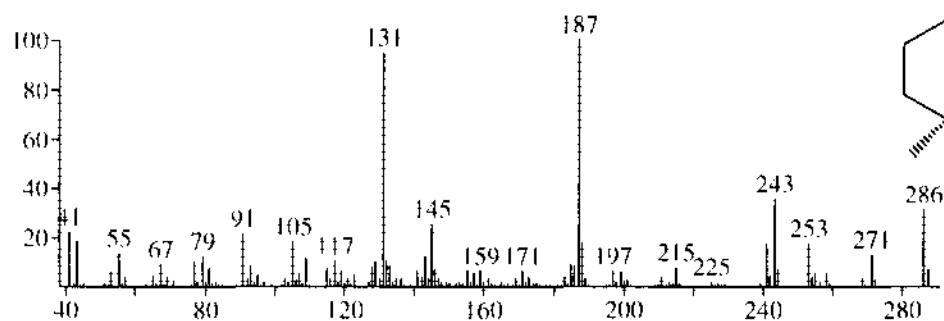
CAS#: 34223-60-4 MF: C₂₀H₃₀O FW: 286 MSD LIB#: 935

CN: 1-phenanthrenecarboxaldehyde, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-

(1-methylethyl)-, (1S-(1a,4aa,4bβ,10aβ))-

Synonyms: 4-epiabetinal

Source: *Juniperus recurva* leaf oil ex RK Thappa, India



RT: 56.48 AI: 2300 KI: 2300 **Tricosane <n->**

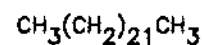
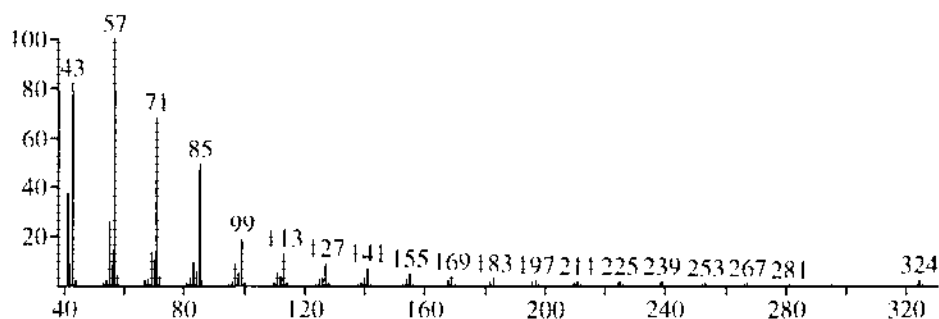
CAS#: 638-67-5 MF: C₂₃H₄₈ FW: 324 MSD LIB#: 103

CN: tricosane

Synonyms: none

Source: Alltech Assoc.; 13.92% *Artemisia afra*, Pharmazie 49:935(1994);

9.32% *Malus arnoldiana*; 8.16% *Nicotiana forgetiana*



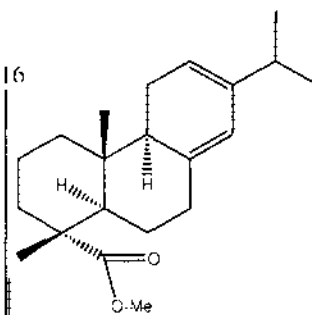
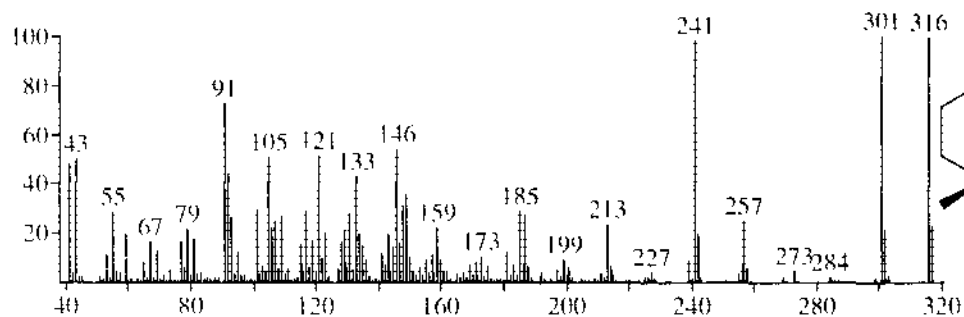
RT: 56.66 AI: 2306 KI: 2306 **Methyl levopimarate**

CAS#: 3513-69-7 MF: C₂₁H₃₂O₂ FW: 316 MSD LIB#: 1764

CN: 1-phenanthrenecarboxylic acid, -1,2,3,4,4a,4b,5,9,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, methyl ester, (1R,4aR,4bS,10aR)-

Synonyms: podocarpa-8(14),12-dien15-oic acid, 13-isopropyl-, methyl ester

Source: *Picea abies* ex Jonathan Gershenzon



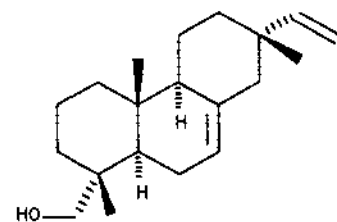
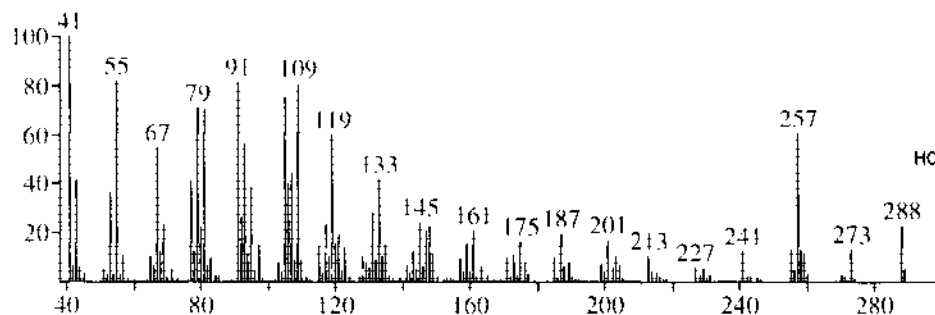
RT: 56.77 AI: 2310 KI: 2310 **Isopimarol**

CAS#: 1686-64-2 MF: C₂₀H₃₂O FW: 288 MSD LIB#: 875

CN: 1-phenanthrenemethanol, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,8,10,10a-dodecahydro-1,4a,7-trimethyl-, (1R-(1α,4aβ,4bα,7α,10α))-

Synonyms: isopimarinol; isopimara-7,15-dien-18-ol

Source: ref. cpd. ex Don Clark



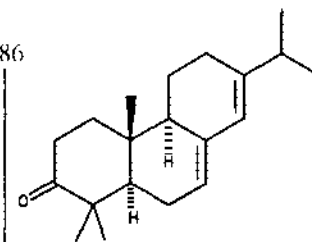
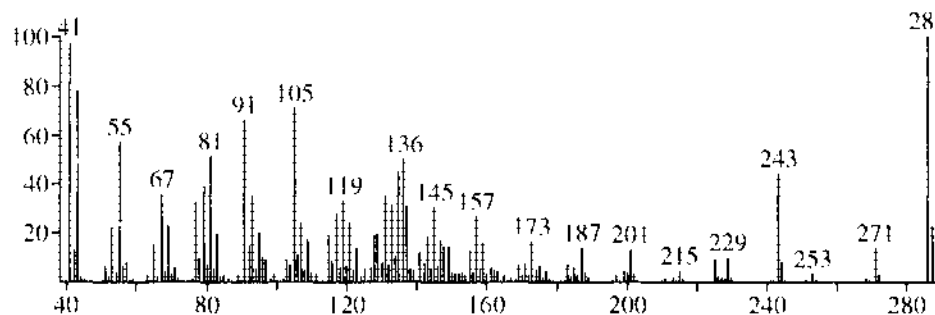
RT: 56.85 AI: 2312 KI: 2313 **Abieta-7,13-dien-3-one**

CAS#: 29461-25-4 MF: C₂₀H₃₀O FW: 286 MSD LIB#: 946

CN: 2(1H)-phenanthrenone, 3,4,4a,4b,5,6,10,10a-octahydro-1,1,4a-trimethyl-7-(1-methylethyl)-, (4aR-(4α,4bβ,10aβ))-

Synonyms: podocarpa-7,13-dien-3-one, 13-isopropyl-

Source: *Juniperus sabina*, diterpenes ex A. San Feliciano



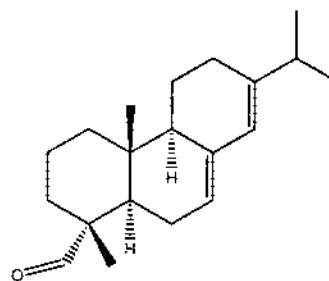
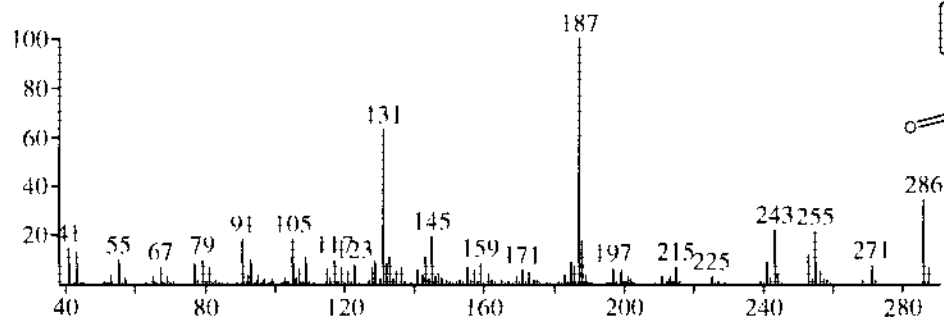
RT: 56.87 AE: 2313 KI: 2313 **Abietal**

CAS#: 6704-50-3 MF: C₂₀H₃₀O FW: 286 MSD LIB#: 416

CN: 1-phenanthrenecarboxaldehyde, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, (1R-(1 α ,4 α β ,4b α ,10 α))-

Synonyms: 7,13-abietadien-18-al; abietinal

Source: *Cedrus libani* resin ex H. Hafizoglu, Turkey; 0.05% *Thuja occidentalis*, JEOR 5:279(1993); 0.05% *Juniperus rigida* (Japan)



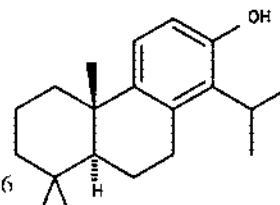
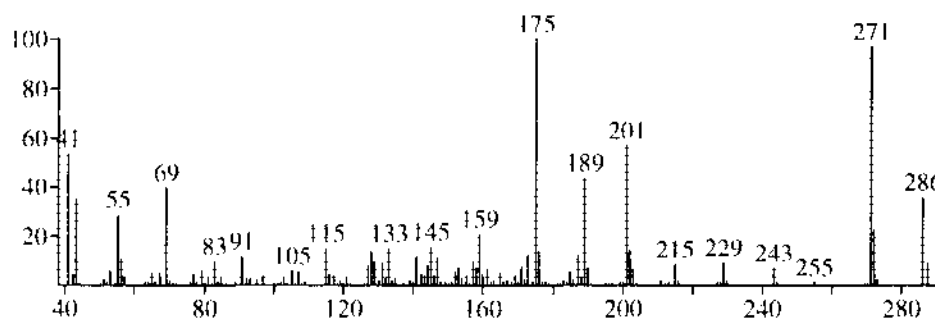
RT: 56.88 AE: 2314 KI: 2314 **Totarol <trans->**

CAS#: 511-15-9 MF: C₂₀H₃₀O FW: 286 MSD LIB#: 1511

CN: 2-phenanthrenol, 4b,5,6,7,8,9,10-octahydro-4b,8,8-trimethyl-1-(1-methylethyl)-, (4bS-trans)-

Synonyms: podocarpa-8,11,13-trien-13-ol, 14-isopropyl-

Source: red. cpd. ex E. von Rudloff



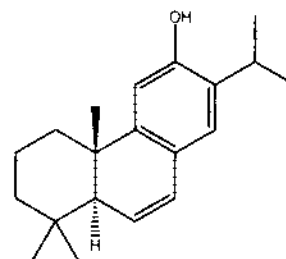
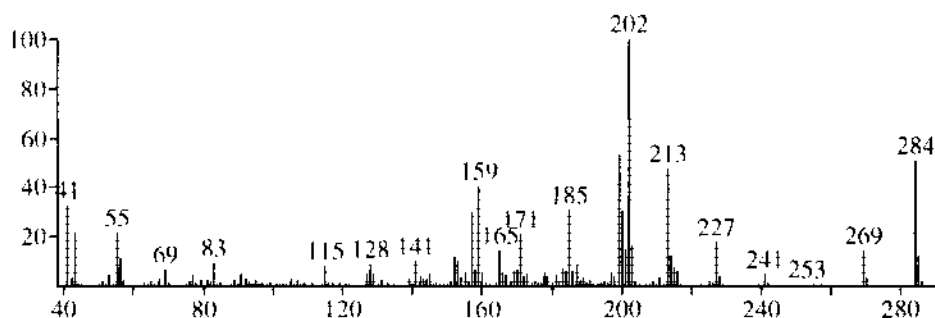
RT: 56.92 AE: 2315 KI: 2315 **Ferruginol <6,7-dehydro->**

CAS#: 34539-84-9 MF: C₂₀H₂₈O FW: 284 MSD LIB#: 1790

CN: 3-phenanthrenol, 4b,5,6,7,8,8a-hexahydro-4b,8,8-trimethyl-2-(1-methylethyl)-, (4bS,8aS)-

Synonyms: ferruginol, 9-dehydro; podocarpa-6,8,11,13-tetraen-12-ol, 13-isopropyl-

Source: *Taxodium distichum* cones, Waco, TX, pentane ext. RP Adams #9944



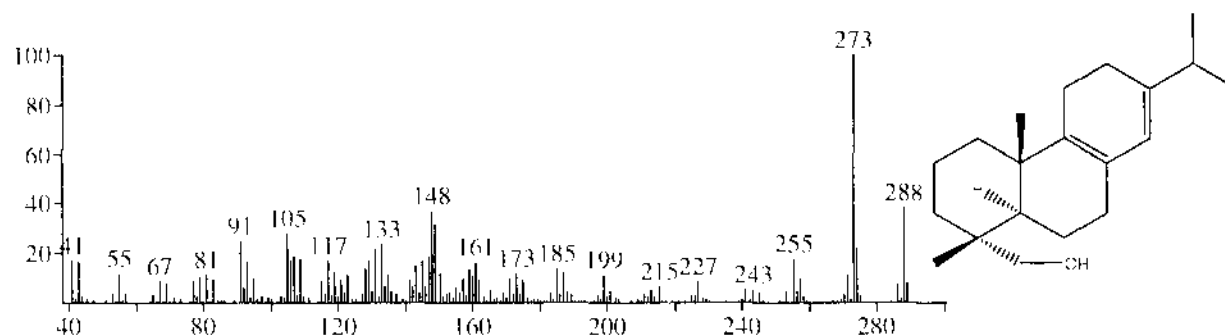
RT: 57.17 AI: 2324 KI: 2324 **Abietadien-18-ol <8,13->**

CAS#: 21414-53-9 MF: C₂₀H₃₂O FW: 288 MSD LIB#: 415

CN: 1-phenanthrenemethanol, 1,2,3,4,4a,5,6,9,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-, (1R-(1 α ,4 α β ,10 α))-

Synonyms: palustrol (*Cedrus*, *Pinus*); Podocarpa-8,13-diene(13-isopropyl)-

Source: *Cedrus libani*, cone resin ex H. Hafizoglu, Turkey



RT: 57.39 AI: 2331 KI: 2332 **Ferruginol <trans->**

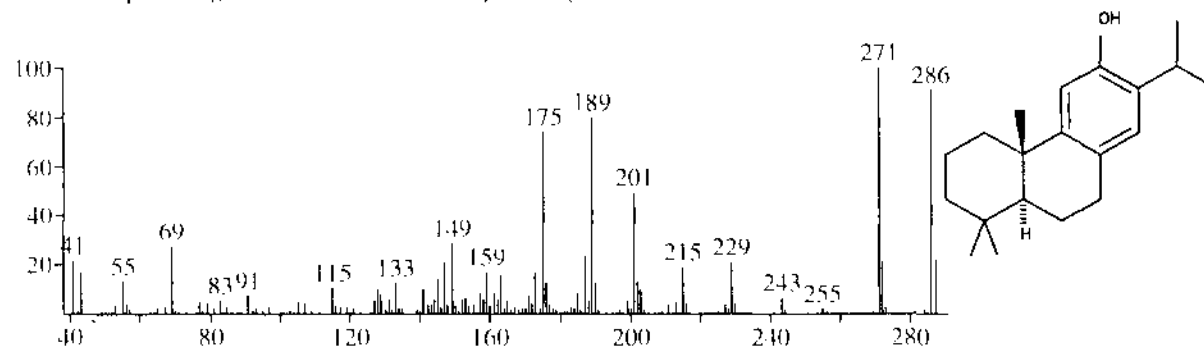
CAS#: 514-62-5 MF: C₂₀H₃₀O FW: 286 MSD LIB#: 716

CN: 3-phenanthrenol, 4b,5,6,7,8,8a,9,10-octahydro-4b,8,8-trimethyl-2-(1-methylethyl)-, (4bS-trans)-

Synonyms: podocarpa-8,11,13-trien-12-ol, 13-isopropyl-

Source: ref. epd. ex Don Clark; 0.10% *Juniperus rigida* (Japan), JEOR 7:49(1995);

0.06% *Juniperus rigida* (China); 0.05% *Juniperus rigida* (Korea)



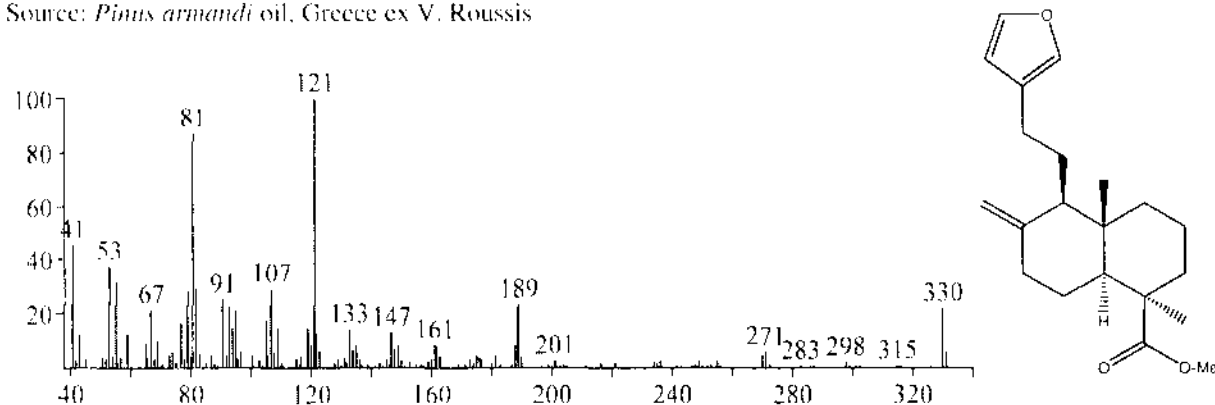
RT: 57.39 AI: 2331 KI: 2332 **Methyl daniellate**

CAS#: 1238-98-8 MF: C₂₁H₃₀O₃ FW: 330 MSD LIB#: 1313

CN: 1-naphthalenecarboxylic acid, 5-(2-(3-furany)ethyl)decahydro-1,4a-dimethyl-6-methylene-, methyl ester, (1R-(1 α ,4 α ,5 α ,8 α β))-

Synonyms: danedion; danifos

Source: *Pinus armandi* oil, Greece ex V. Roussis



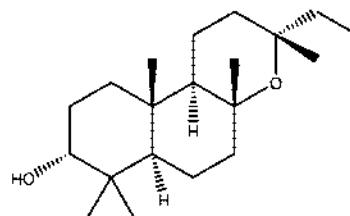
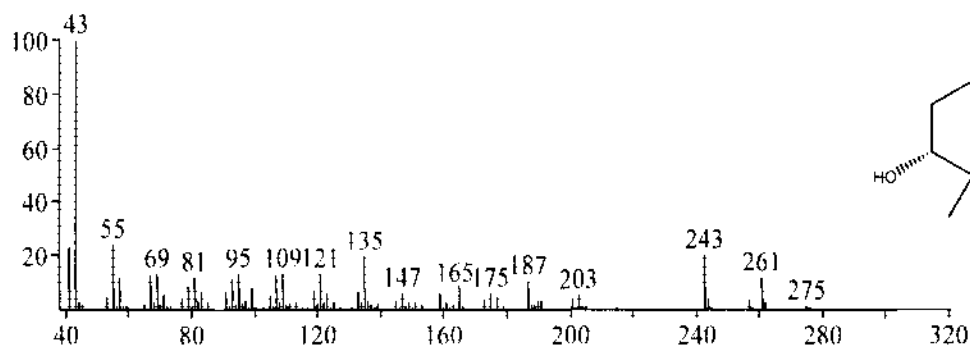
RT: 57.55 AI: 2337 KI: 2338 **Manool oxide <3- α -14,15-dihydro->**

CAS#: 112418-55-0 MF: C₂₀H₃₆O₂ FW: 308 MSD LIB#: 1048

CN: 1H-naphtho[2,1-b]pyran-8-ol,3-ethylidodecahydro-3,4a,7,7,10a-pentamethyl-, (3S-(3 α ,4 α ,6 α ,8 α ,10 α)-)

Synonyms: none

Source: ref. cpd. ex RK Thappa, India



RT: 57.65 AI: 2341 KI: 2341 **Methyl dehydroabietate**

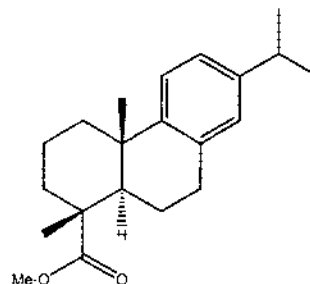
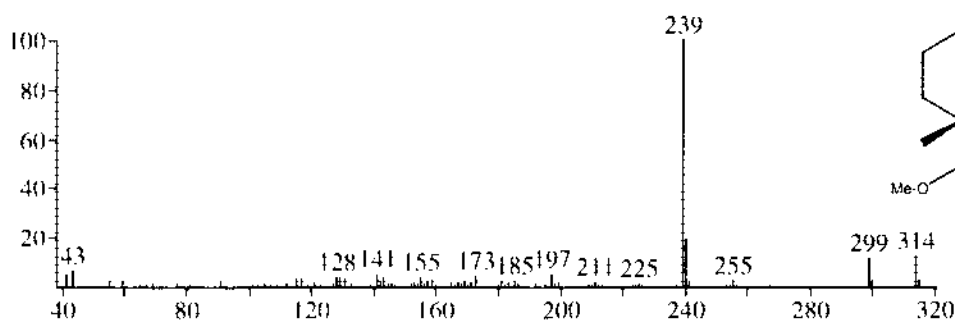
CAS#: 1235-74-1 MF: C₂₁H₃₀O₂ FW: 314 MSD LIB#: 1765

CN: 1-phenanthrenecarboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,

4a-dimethyl-7-(1-methylethyl)-,methyl ester,(1R,4aS,10aR)-

Synonyms: podocarpa-8,11,13-trien-15-oic acid, 13-isopropyl-,methyl ester

Source: *Picea abies* ex J. Gershenzon



RT: 57.72 AI: 2343 KI: 2344 **Abietol <4-epi->**

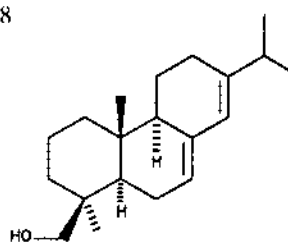
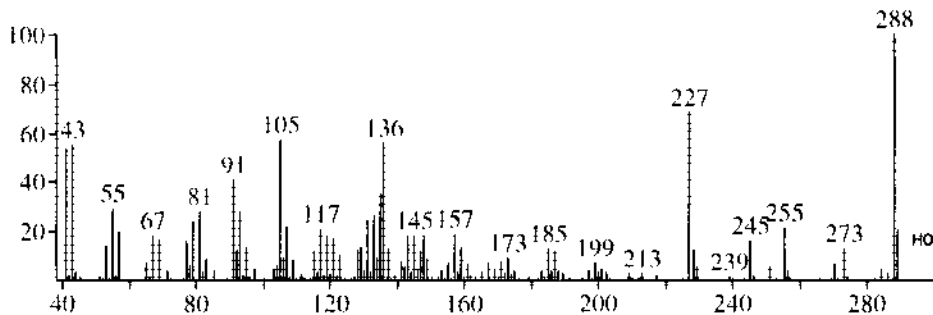
CAS#: 24563-94-8 MF: C₂₀H₃₂O FW: 288 MSD LIB#: 902

CN: 1-phenanthrenemethanol, 1,2,3,4,4a,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-,

(1S,4aR,4bR,10aR)-

Synonyms: none

Source: *Juniperus excelsa*, diterpenes (actually *J. procera*, author's note) ex F. S. El-Ferally



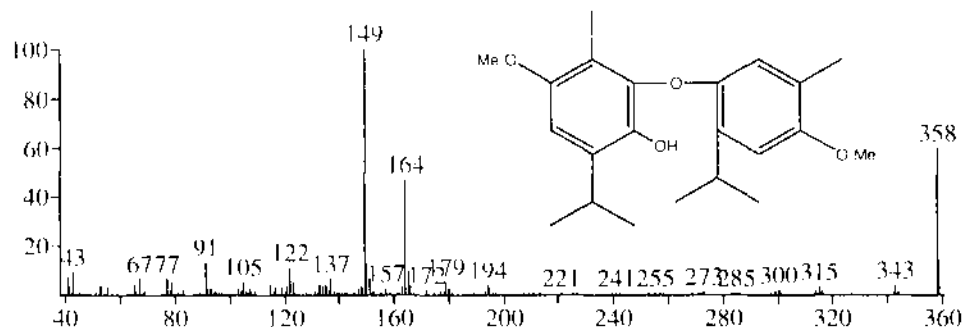
RT: 57.76 AI: 2344 KI: 2345 **Libocedrol**

CAS#: 497-46-1 MF: C₂₂H₃₀O₄ FW: 358 MSD LIB#: 1855

CN: phenol, 4-methoxy-2-(4-methoxy-5-methyl-2-(1-methylethyl)phenoxy)-3-methyl-6-(1-methylethyl)-

Synonyms: none

Source: *Calocedrus decurrens* wood oil ex Joe Karchesy



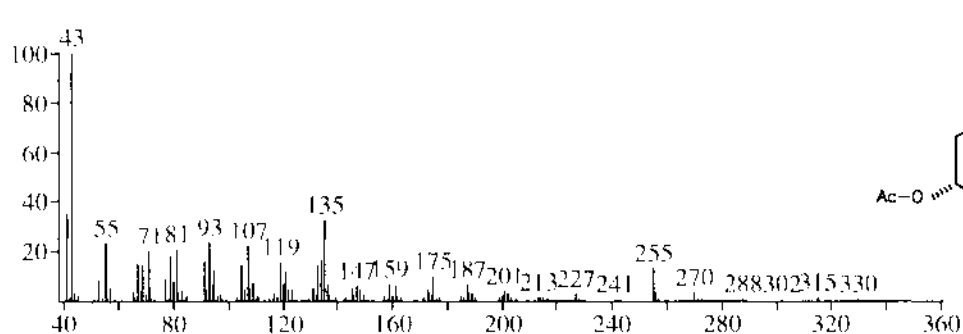
RT: 58.18 AI: 2359 KI: 2360 **Manool <3- α -acetoxy>**

CAS#: 112239-37-9 MF: C₂₂H₃₆O₃ FW: 348 MSD LIB#: 1046

CN: 1-naphthalenepropanol, 6-(acetyloxy) α -ethenyldecahydro- α ,5,5,8a-tetramethyl-2-methylene-, (1S-(1 α ,4 α ,6 β ,8 α))-

Synonyms: none

Source: ref. cpd. ex RK Thappa, India



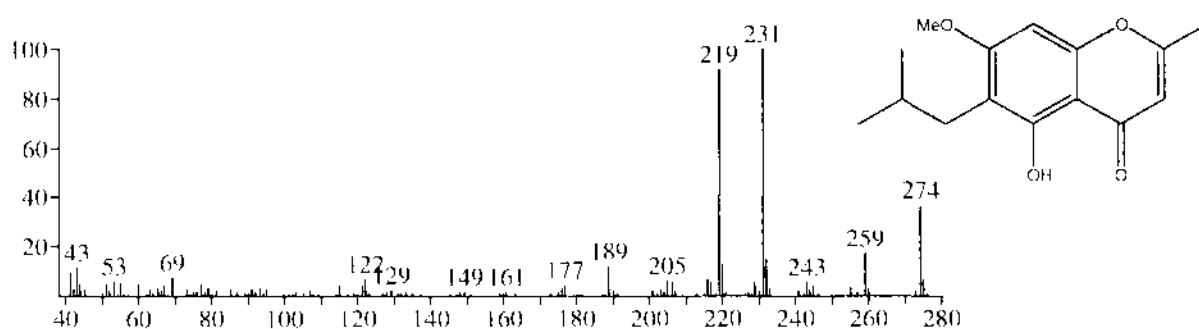
RT: 58.21 AI: 2360 KI: 2361 **Peucenin, 7-methyl ether**

CAS#: 13544-40-6 MF: C₁₆H₁₈O₄ FW: 274 MSD LIB#: 1911

CN: 4H-1-benzopyran-4-one,5-hydroxy-7-methoxy-2-methyl-6-(3-methyl-2-butenyl)-

Synonyms: peucenin 7-o-methyl ester

Source: *Lomatium dissectum* root oil ex Vasu Dev



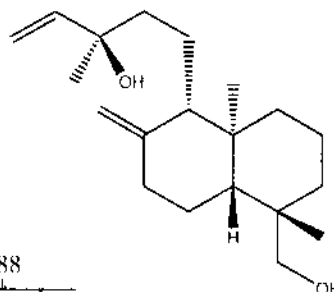
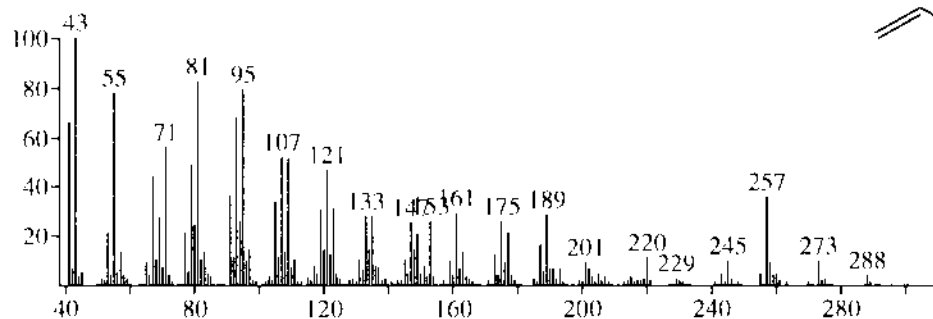
RT: 58.21 AI: 2360 K1: 2361 **Torulosol**

CAS#: 1908-44-7 MF: C₂₀H₃₄O₂ FW: 306 MSD LIB#: 1794

CN: 1-naphthalenepropanol, α -ethenyldecahydro-5-(hydroxymethyl)- α ,5,8 α -, trimethyl-2-methylene-(α R,1S,4 α R,5S,8 α R)-

Synonyms: Labda-8(20),14-diene-13,19-diol

Source: *Cupressus atlantica*, Morocco, pentane ext. of wood, RP Adams #9934



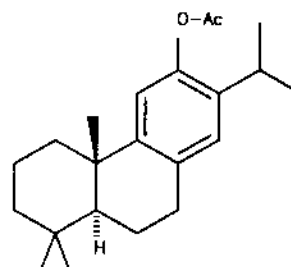
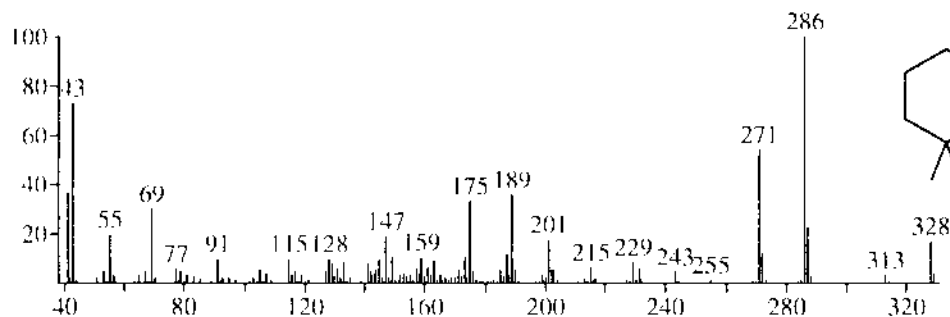
RT: 58.28 AI: 2363 K1: 2363 **Ferruginol acetate <trans>**

CAS#: 15340-79-1 MF: C₂₂H₃₂O₂ FW: 328 MSD LIB#: 718

CN: 3-phenanthrenol, 4b,5,6,7,8,8a,9,10-octahydro-4b,8,8-trimethyl-2-(1-methylethyl)-, acetate, (4bS-trans)-

Synonyms: podocarpa-8,11,13-trien-12-ol, 13-isopropyl-, acetate

Source: acetylation of trans-ferruginol(6160)



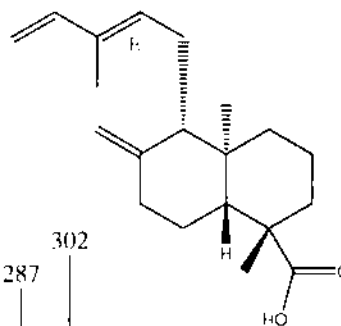
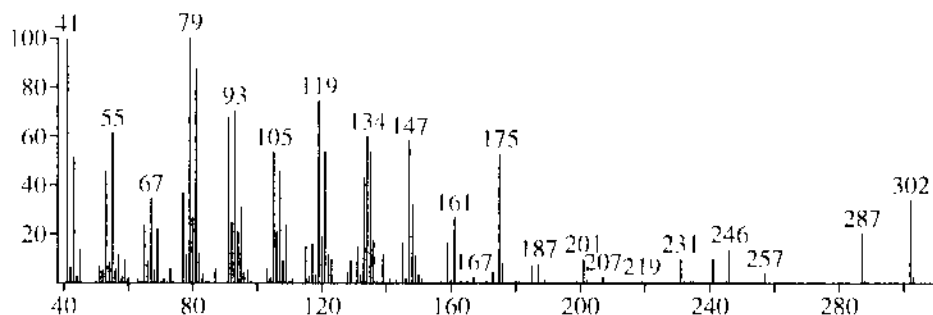
RT: 58.35 AI: 2365 K1: 2366 **Communic acid**

CAS#: 2761-77-5 MF: C₂₀H₃₀O₂ FW: 302 MSD LIB#: 1752

CN: 1-naphthalenecarboxylic acid, decahydro-1,4a-dimethyl-6-methylene-5-(3-methyl-2,4-pentadienyl)- (1S,4 α R,5S,8 α R)-

Synonyms: none

Source: ref. epd. ex E. von Rudloff



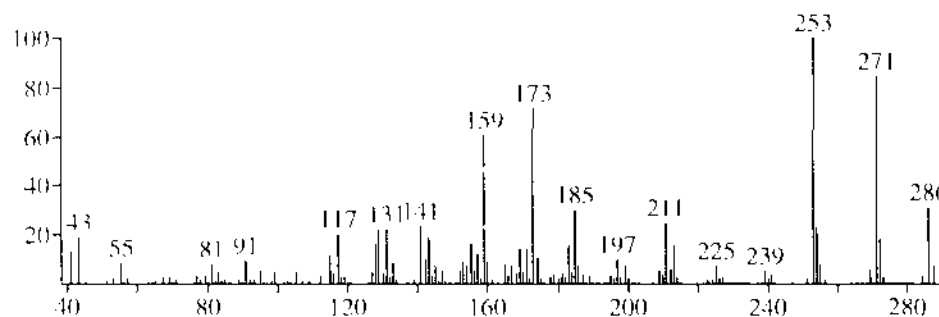
RT: 58.42 AI: 2368 KI: 2368 **Abietol, dehydro**

CAS#: 3772-55-2 MF: C₂₀H₃₀O FW: 286 MSD LIB#: 414

CN: 1-phenanthrenemethanol, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, (1R-(1a,4a β ,10a α))-

Synonyms: dehydroabietyl alcohol

Source: *Cedrus libani* cone resin ex H. Hafizoglu



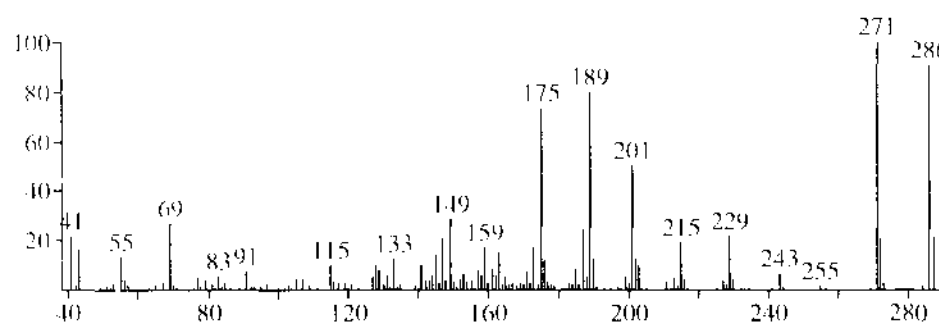
RT: 58.50 AI: 2370 KI: 2371 **Ferruginol <cis>**

CAS#: 000-00-0 MF: C₂₀H₃₀O FW: 286 MSD LIB#: 717

CN: 3-phenanthrenol, 4b,5,6,7,8,8a,9,10-octahydro-4b,8,8-trimethyl-2-(1-methylethyl)-, (4aS-cis)-

Synonyms: none

Source: ref. cpd. ex Don Clark



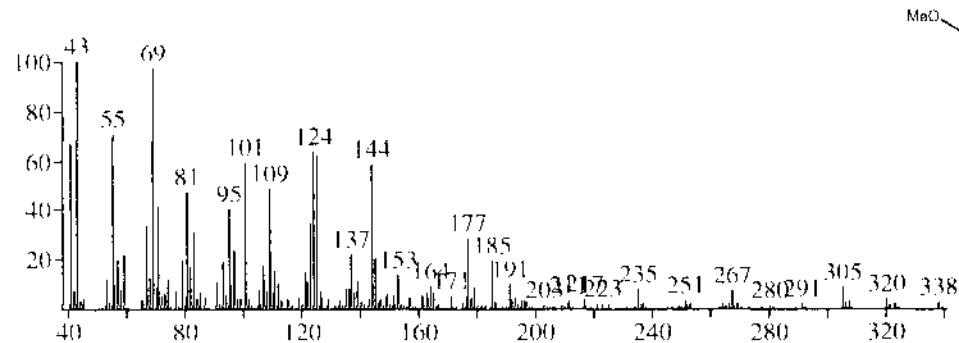
RT: 58.80 AI: 2381 KI: 2381 **Methyl labdanolate**

CAS#: 10267-25-1 MF: C₂₁H₃₈O₃ FW: 338 MSD LIB#: 1883

CN: 1-naphthalenepentanoic acid, decahydro-2-hydroxy- β ,2,5,5,8a-pentamethyl-methyl ester (3S, 1R, 2R, 4aS, 8aS)-

Synonyms: Labdanolic acid, methyl ester; methyl 8-hydroxylabdan-15-oate

Source: ref. cpd. ex Joaquin Altarejos



RT: 58.91 AI: 2385 K1: 2385 **Methyl abietate**

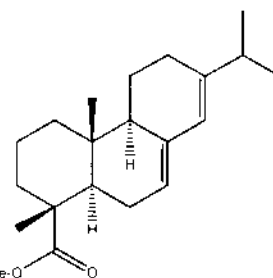
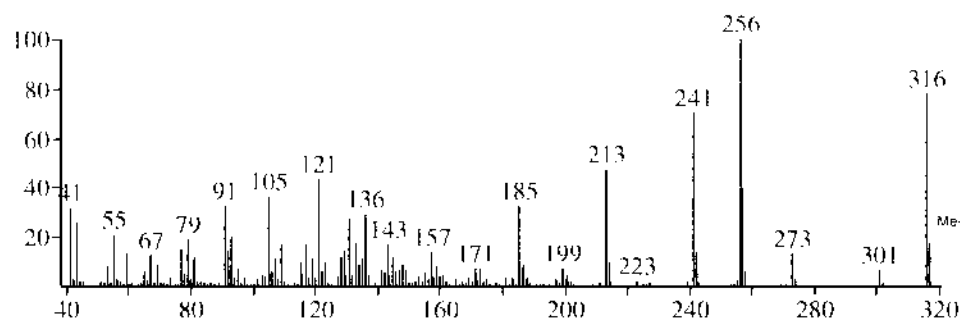
CAS#: 127-25-3 MF: C₂₁H₃₂O₂ FW: 316 MSD LIB#: 1766

CN: 1-phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10A-decahydro-1,4a-dimethyl-7-

(1-methylethyl)-, methyl ester, (1R,4aR,4bR,10aR)-

Synonyms: PODOCARP-7,13-dien-15-oic acid, 13-isopropyl-,methyl ester

Source: *Picea abies*, ref. cpd. ex J. Gershenzon



RT: 58.96 AI: 2387 K1: 2387 **Methyl nidoresedate**

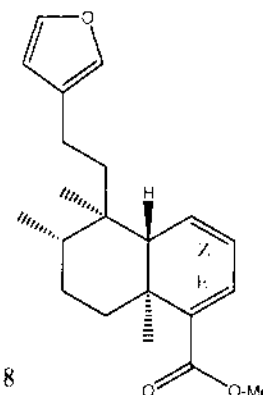
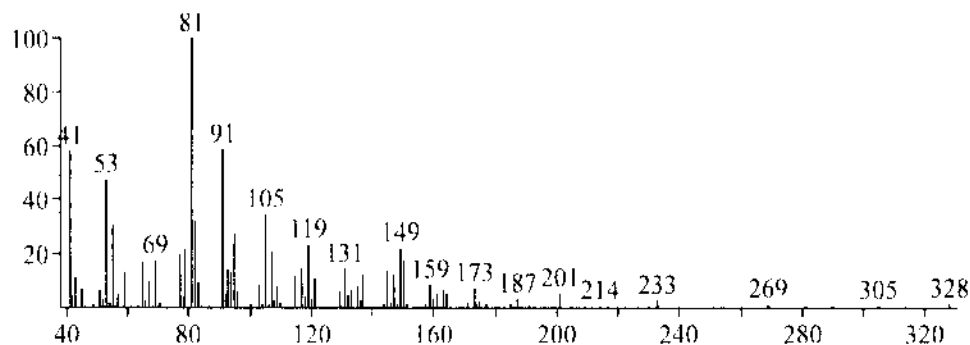
CAS#: 90686-31-0 MF: C₂₁H₂₈O₃ FW: 328 MSD LIB#: 1157

CN: 1-naphthalenecarboxylic acid, 5-(2-(3-furanyl)ethyl)-4a,5,6,7,8,8a-hexahydro-5,6,8a-trimethyl-,

methyl ester, (4aR-(4aα,5a,6β,8aβ))-

Synonyms: none

Source: *Nidorella resedifolia* oil ex P. Weyerstahl



RT: 58.96 AI: 2387 K1: 2387 **Methyl strictate**

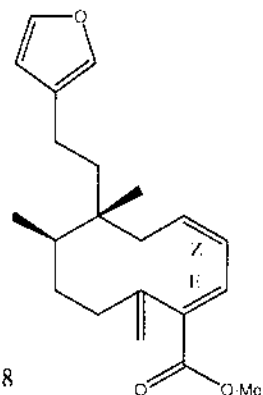
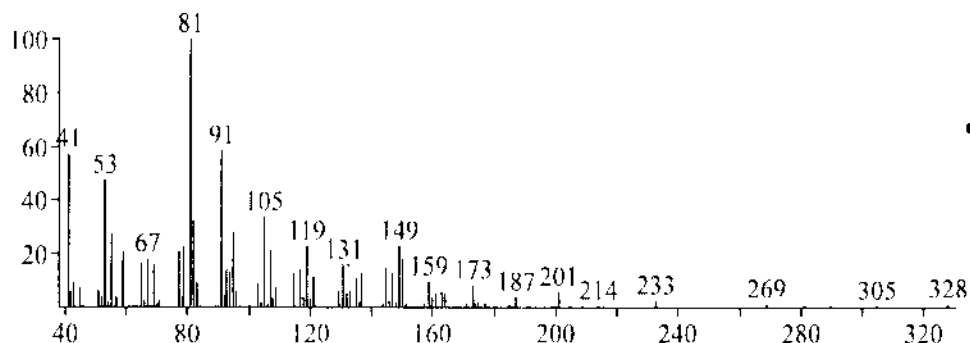
CAS#: 70387-35-8 MF: C₂₁H₂₈O₃ FW: 328 MSD LIB#: 1156

CN: 1,3-cyclodecadiene-1-carboxylic acid, 6-(2-(3 furanyl)ethyl)-6,7-dimethyl 10-

methylene-, methyl ester, (6R-(1E,3Z,6R*,7R*))-

Synonyms: methyl conyzic acid; methyl seconidoresedate

Source: *Nidorella resedifolia* oil ex P. Weyerstahl



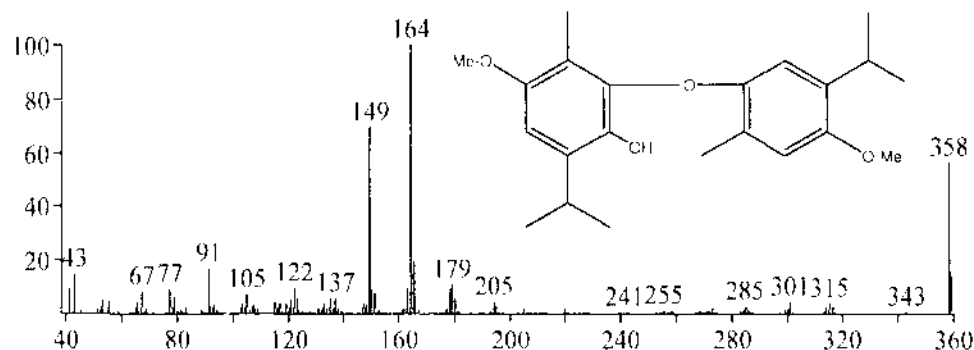
RT: 59.05 AI: 2390 KI: 2390 **Heyderiol**

CAS#: 534-43-0 MF: C₂₂H₃₀O₄ FW: 358 MSD LIB#: 2178

CN: phenol,4-methoxy-2-(4-methoxy-2-methyl-5-(1-methylethyl)phenoxy) 3-methyl-6-(1-methylethyl)-

Synonyms: Hyderiol

Source: *Calocedrus decurrens* wood oil ex Joe Karchesy



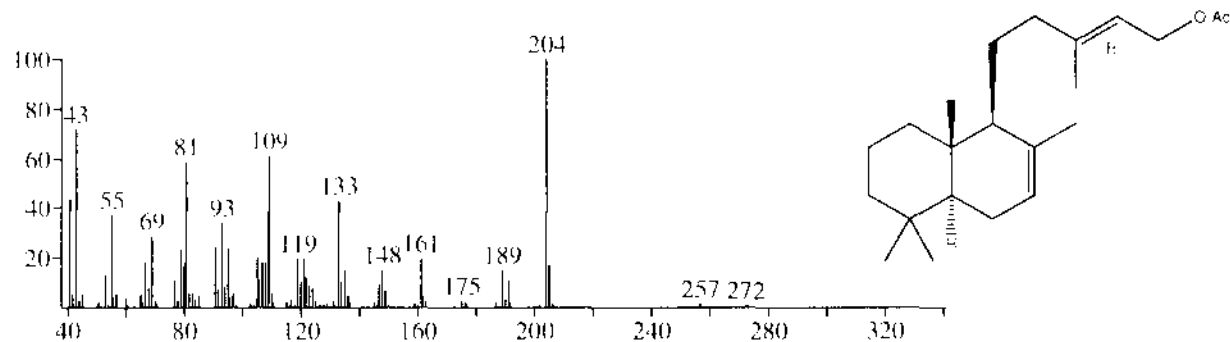
RT: 59.12 AI: 2392 KI: 2392 **Labd-7,13-dien-15-ol, acetate**

CAS#: 000-00-0 MF: C₂₂H₃₆O₂ FW: 332 MSD LIB#: 1827

CN: 2-penten-1-ol, 3-methyl-5-((1S,4aS,8aS)-1,4,4a,5,6,7,8,8a-octahydro-2,5,5,8a-tetramethyl-1-naphthalenyl)-, <2I>-, acetate

Synonyms: none

Source: ref. epd. ex Costos Demetrios



RT: 59.33 AI: 2400 KI: 2400 **Tetracosane <n>**

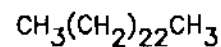
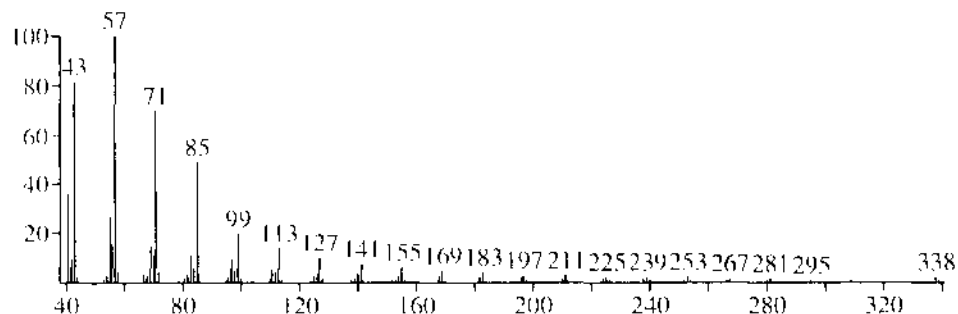
CAS#: 646-31-1 MF: C₂₄H₅₀ FW: 338 MSD LIB#: 106

CN: tetracosane

Synonyms: none

Source: Alltech Assoc.; 2.73% *Nicotiana forgetiana*, JFOR 7:265(1995);

1.14% *Wiedemannia orientalis*; 1.00% *Rheum palmatum*



RT: 59.37 AI: 2401 KI: 2401 **Abietol**

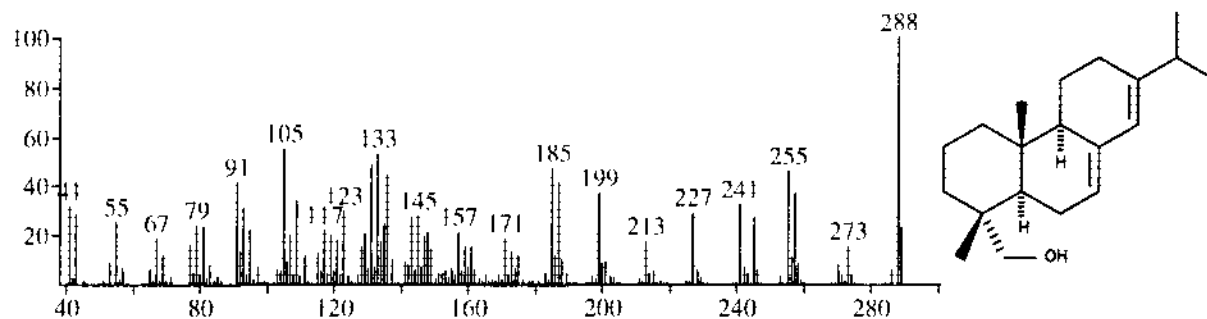
CAS#: 666-84-2 MF: C₂₀H₃₂O FW: 288 MSD LIB#: 412

CN: 1-phenanthrenemethanol, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl)-,

(1R-(1 α ,4 α β ,4 α ,10 α))-

Synonyms: abietinol; podocarpa-7,13-dien-15-ol, 13-isopropyl-

Source: *Cedrus libani* cone resin ex H Hafizoglu, Turkey



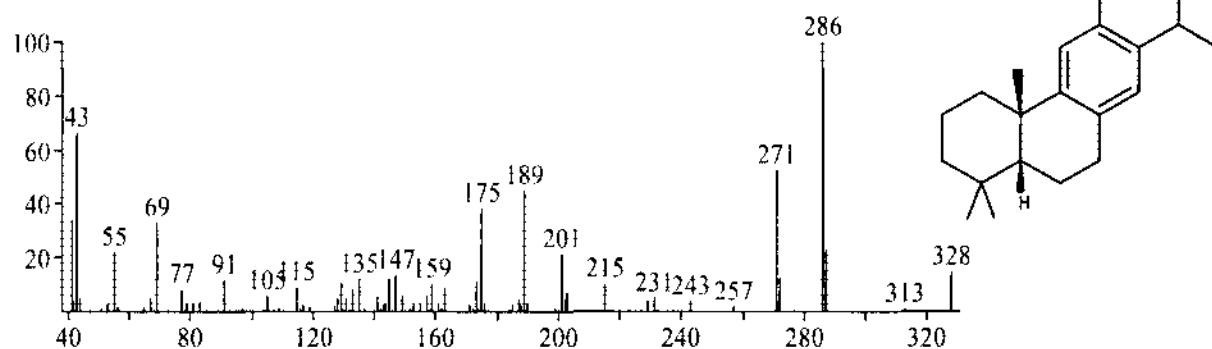
RT: 59.63 AI: 2411 KI: 2411 **Ferruginol acetate <cis->**

CAS#: 126061-37-8 MF: C₂₂H₃₂O₂ FW: 328 MSD LIB#: 719

CN: 3-phenanthrenol, 4b,5,6,7,8,8a,9,10-octahydro-4b,8,8-trimethyl-2-(1-methylethyl)-, acetate, cis-

Synonyms: none

Source: acetylation of cis-ferruginol(6160)



RT: 59.92 AI: 2422 KI: 2422 **Labd-(13E)-8,15-diol**

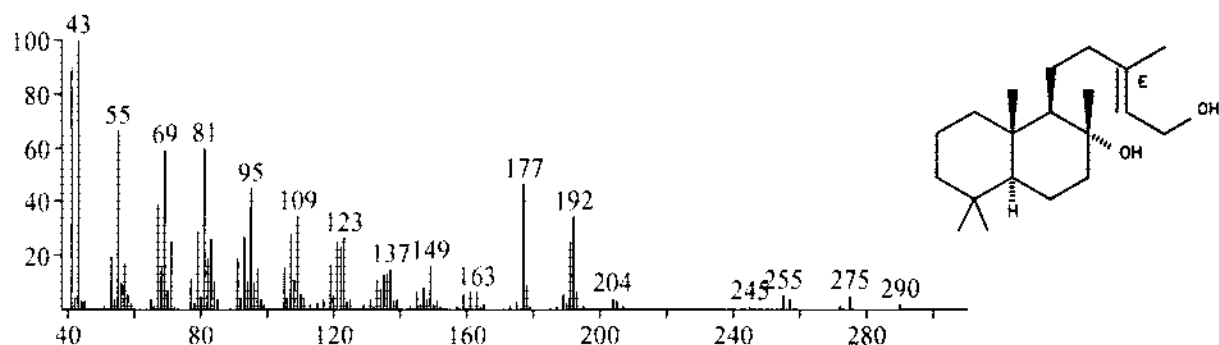
CAS#: 10267-31-9 MF: C₂₀H₃₆O₂ FW: 308 MSD LIB#: 972

CN: 2-naphthalenol, decahydro-1-(5-hydroxy-3-pentenyl)-2,5,5,8a-tetramethyl-,

(1R-(1 α (E),2 β 4 α β ,8 α))-

Synonyms: none

Source: ref. cpd. ex San Feliciano



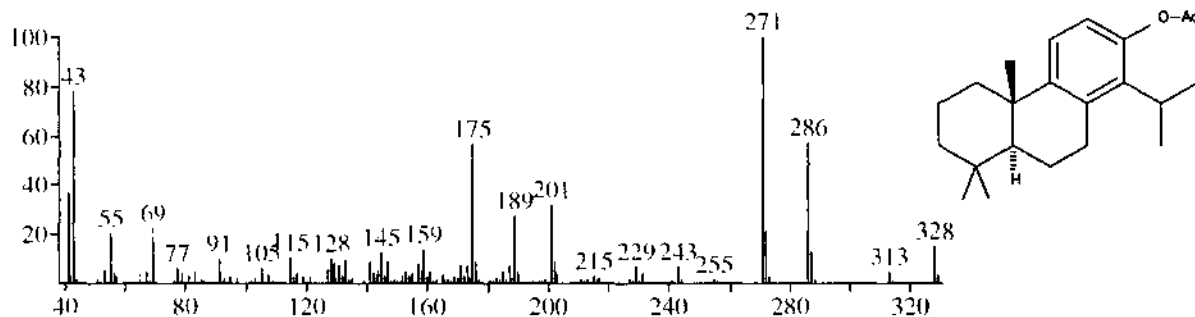
RT: 60.10 AI: 2428 KI: 2429 **Totarol acetate <trans>**

CAS#: 15340-82-6 MF: C₂₂H₃₂O₂ FW: 328 MSD LIB#: 1512

CN: 2-phenanthrenol, 4b,5,6,7,8,8a,9,10-octahydro-4b,8,8-trimethyl-1-(1-methylethyl)-, acetate, (4bS-trans)-

Synonyms: podocarpa-8,11,13-trien-13-ol, 14-isopropyl-, acetate

Source: acetylation of trans-totarol(6427)



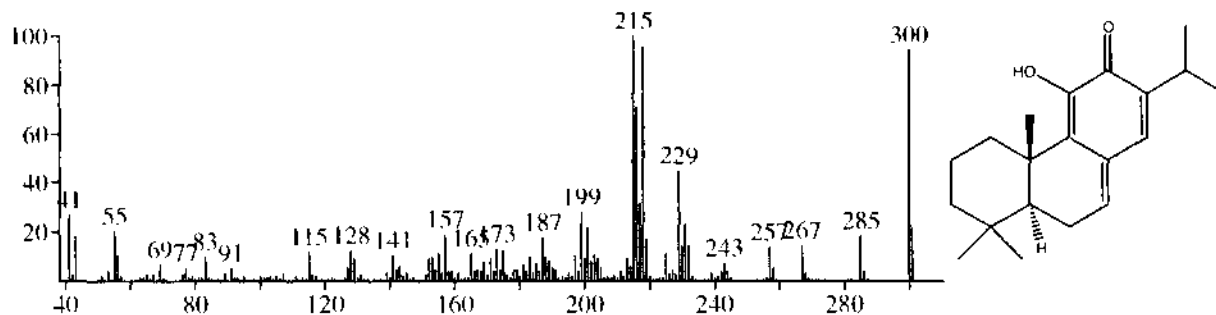
RT: 60.28 AI: 2435 KI: 2436 **Taxodione <6-deoxy>**

CAS#: 86510-13-6 MF: C₂₀H₂₈O₂ FW: 300 MSD LIB#: 1902

CN: 3(4bH)-phenanthrenone, 5,6,7,8,8a,9-hexahydro-4-hydroxy-4b,8,8-trimethyl-2-(1-methylethyl)-, (4bS,8aS)-

Synonyms: abietateriene, 11-hydroxy-12-oxo-7,9(11),13-

Source: *Taxodium distichum* cones, Waco, TX, pentane ext., RP Adams #9944



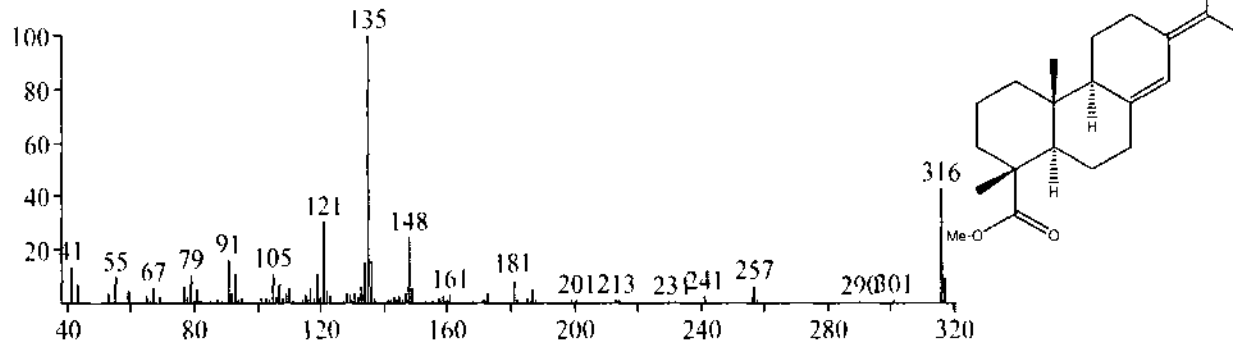
RT: 60.48 AI: 2443 KI: 2443 **Methyl neoabietate**

CAS#: 3310-97-2 MF: C₂₁H₃₂O₂ FW: 316 MSD LIB#: 1767

CN: 1-phenanthrene-1-carboxylic acid, 1,2,3,4,4a,4b,5,6,7,9,10,10a-dodecahydro-1,4a-dimethyl-7-(1-methylethylidene)-,methyl ester,(1R,4aR,4bS,10aR)-

Synonyms: podocarp-8(14)-en-15-oic acid, 13-isopropylidene-,methyl ester

Source: *Picea abies* ex Jonathan Gershenzon



RT: 60.55 AI: 2445 KI: 2446 **Totarol <7- α -hydroxy-trans->**

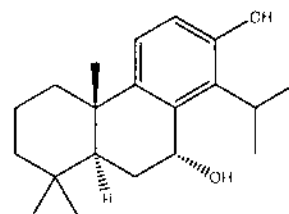
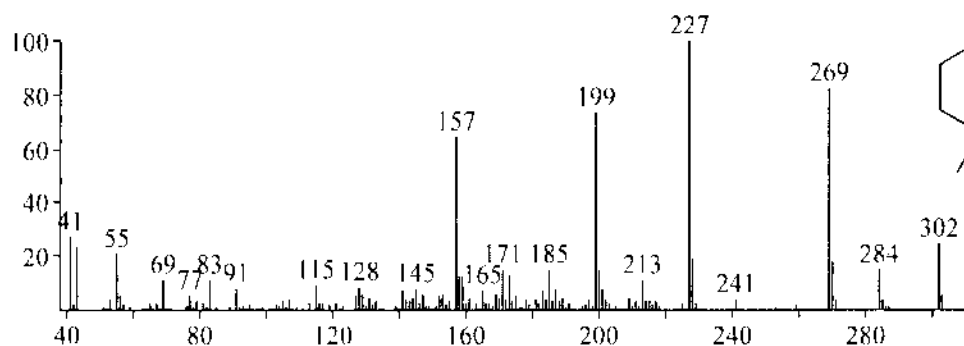
CAS#: 6811-52-5 MF: C₂₀H₃₀O₂ FW: 302 MSD LIB#: 1499

CN: 2,10-phenanthrenediol, 4b,5,6,7,8,8a,9,10-octahydro-4b,8,8-trimethyl-1-(1-methylethyl)-.

(4bS-(4b α ,8a β ,10 β))-

Synonyms: podocarpa-8,11,13-triene-7 α ,13-diol, 14-isopropyl-

Source: *Thujopsis dolabrata*, diterpenes, S. Nagahama, Japan



RT: 60.84 AI: 2456 KI: 2457 **Ferruginol <6-keto->**

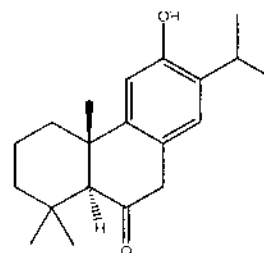
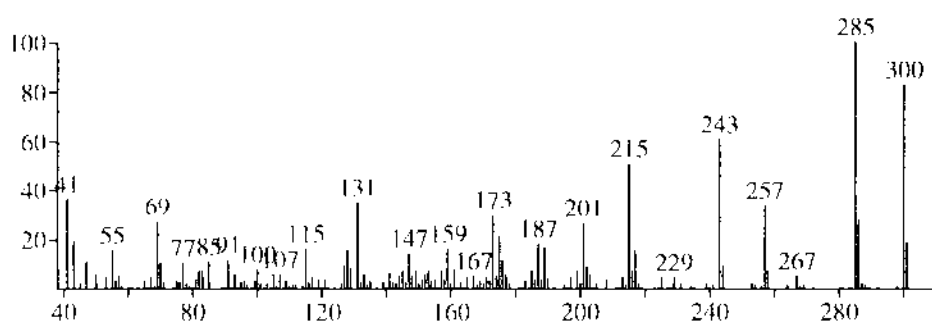
CAS#: 70614-89-0 MF: C₂₀H₂₈O₂ FW: 300 MSD LIB#: 494

CN: 9(5H)-phenanthrenone, 4b,6,7,8,8a,10-hexahydro-3-hydroxy-4b,

8,8-trimethyl-2-(1-methylethyl)-, (4bS,8aS)-

Synonyms: 6-oxoferruginol

Source: *Cryptomeria japonica* wood oil ex S. Nagahama, Japan



RT: 61.15 AI: 2468 KI: 2468 **Abietol <neo->**

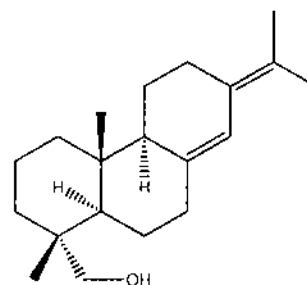
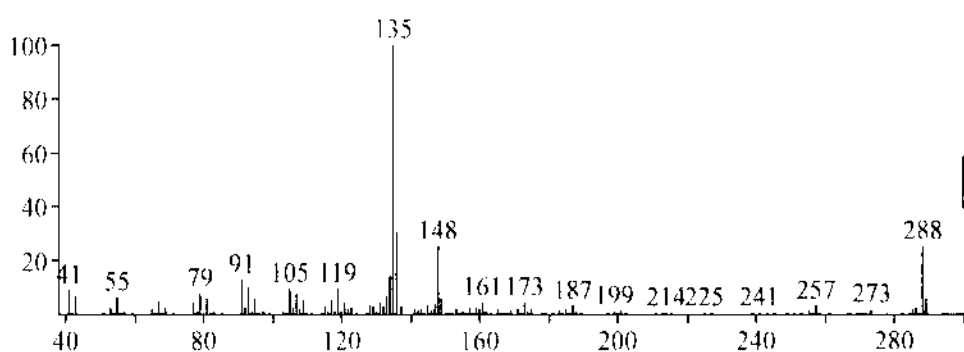
CAS#: 640-42-6 MF: C₂₀H₃₂O FW: 288 MSD LIB#: 413

CN: 1-phenanthrenemethanol, 1,2,3,4,4a,4b,5,6,7,9,10,10a-dodecahydro-1,4a-dimethyl-7-

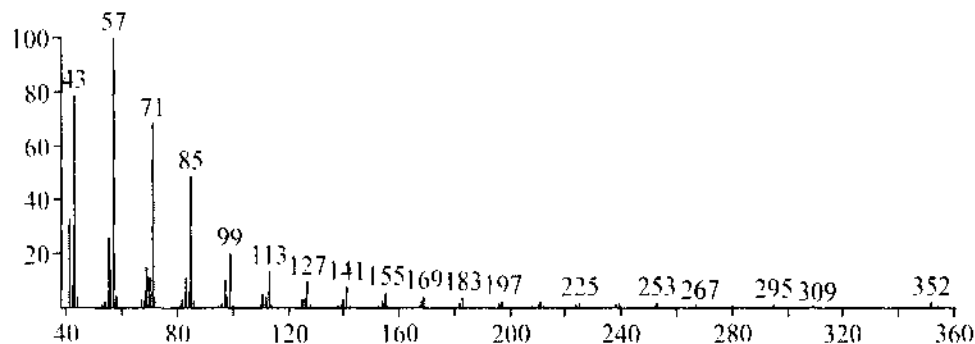
(1-methylethylidene)-, (1R-(1 α ,4a β ,4b α ,10a α))-

Synonyms: podocarp-8(14)-en-15-ol, 13-isopropylidene-, neoabietinol

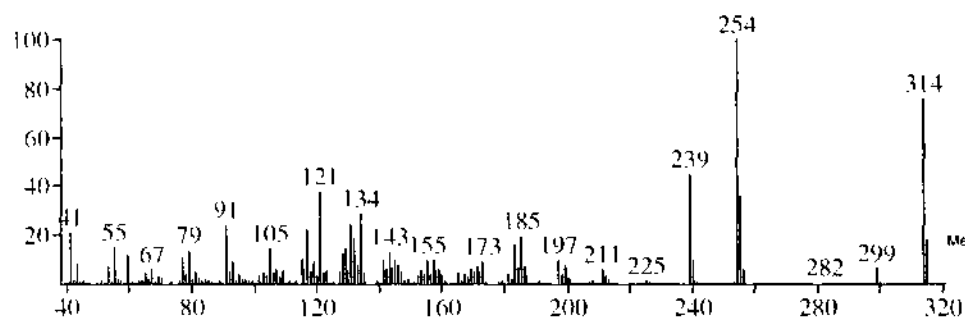
Source: *Cedrus libani* cone resin ex H Hafizoglu, Turkey



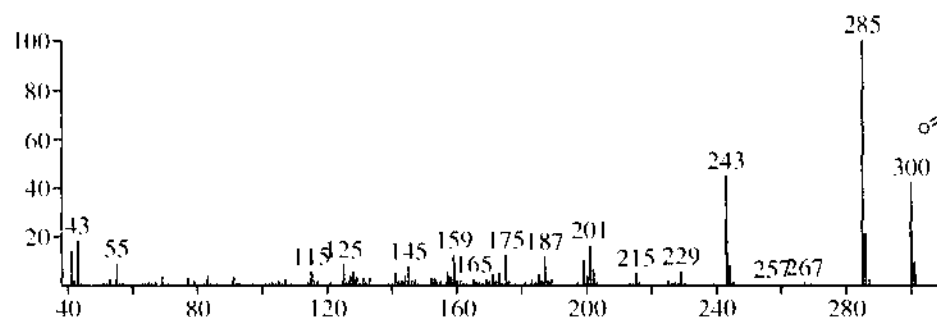
RT: 62.00 AI: 2500 KI: 2500 **Pentacosane <n->**
 CAS#: 629-99-2 MF: C₂₅H₅₂ FW: 352 MSD LIB#: 102
 CN: pentacosane
 Synonyms: none
 Source: Alltech Assoc.; 8.35% *Nicotiana forgetiana*, JEOR 7:265(1995);
 5.10% *Malus arnoldiana*; 1.21% *Rosa centifolia*



RT: 62.05 AI: 2501 KI: 2501 **Methyl 7,13,15-abietatrienoate**
 CAS#: 54850-32-7 MF: C₂₁H₃₀O₂ FW: 314 MSD LIB#: 1768
 CN: 1-phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro--1,4a-dimethyl-7-(1-methylethenyl)-,methyl ester,(1R,4aR,4bR,10aR)
 Synonyms: 7,13,15-abietatrienic acid, methyl ester
 Source: *Picea abies*, ref. cpd. ex J. Gershenzon



RT: 63.10 AI: 2542 KI: 2542 **Totarolone**
 CAS#: 6755-93-7 MF: C₂₀H₂₈O₂ FW: 300 MSD LIB#: 1806
 CN: 2(1H)-phenanthrenone, 3,4,4a,9,10,10a-hexahydro-7-hydroxy-1,1,4a-trimethyl-8-(1-methylethyl)- (4aS,10aR)-
 Synonyms: shonanol, 3-oxototarol, podocarpa-8,11,13-trien-3-one, 13-hydroxy-14-ipp-
 Source: *Tetraclinis articulata*, Morocco, wood, pentane ext, RP Adams #9411



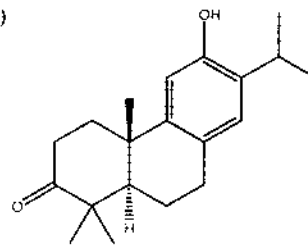
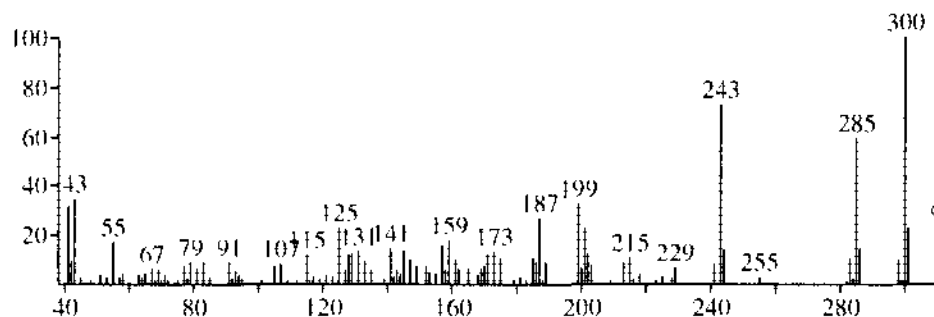
RT: 63.30 AI: 2549 KI: 2550 **Hinokione**

CAS#: 472-37-7 MF: C₂₀H₂₈O₂ FW: 300 MSD LIB#: 1788

CN: 2(1H)-phenanthrenone, 3,4,4a,9,10,10a-hexahydro-6-hydroxy-1-1,4a-trimethyl-7-(1-methylethyl)-, (4aS,10aR)-

Synonyms: Podocarpa-8,11,13-trien-3-one, 12-hydroxy-13-isopropyl-

Source: *Juniperus chinensis* wood oil, RP Adams #9736



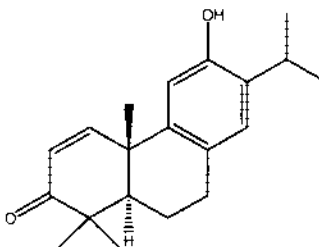
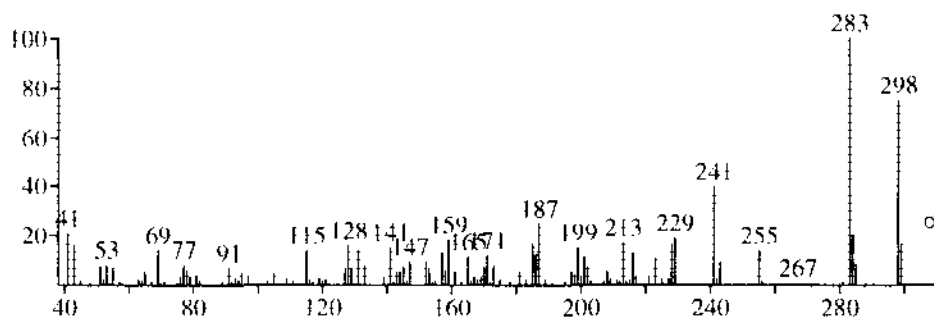
RT: 63.50 AI: 2557 KI: 2557 **Hinokienone**

CAS#: 18326-19-7 MF: C₂₀H₂₆O₂ FW: 298 MSD LIB#: 1789

CN: 2(1H)-phenanthrenone, 4a,9,10,10a-tetrahydro-6-hydroxy-1,1,4a-trimethyl-7-(1-methylethyl)-, (4aS-trans)-

Synonyms: Podocarpa-1,8,11,13-tetraen-3-one, 12-hydroxy-13-isopropyl-

Source: *Juniperus chinensis* wood oil, RP Adams #9736



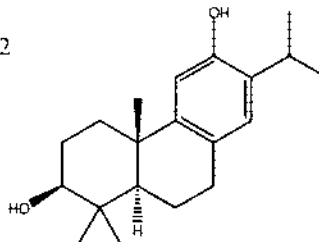
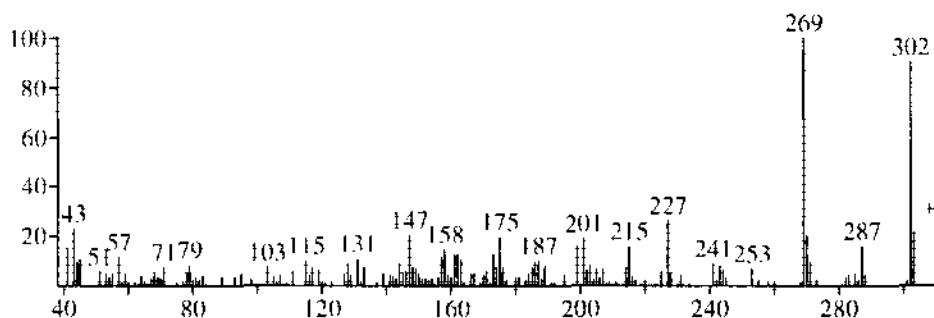
RT: 64.33 AI: 2589 KI: 2589 **Hinokiol**

CAS#: 564-73-8 MF: C₂₀H₃₀O₂ FW: 302 MSD LIB#: 1777

CN: 2,6-Phenanthrenediol, 1,2,3,4,4a,9,10,10a-octahydro-1,1,4a-trimethyl-7-(1-methylethyl)-, (2S,4aS,10aR)-

Synonyms: Podocarpa-8,11,13-trien-3β,12α-diol, 13-isopropyl-

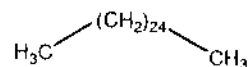
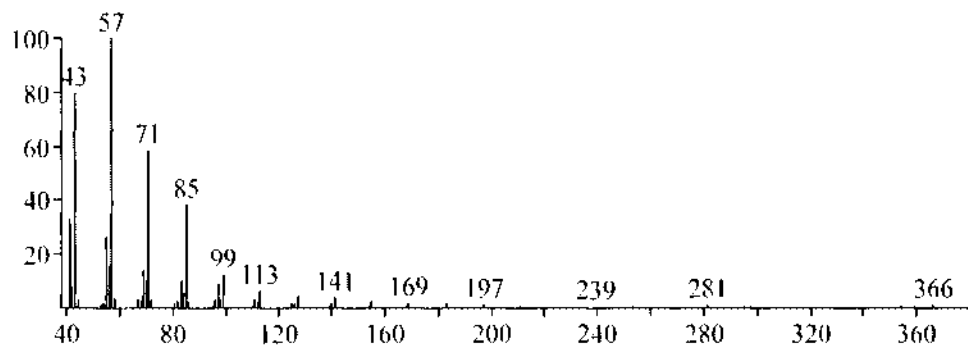
Source: *Taxodium distichum* cones, Waco, TX, RP Adams #9944



RT: 64.61 AI: 2600 KI: 2600 **Hexacosane**CAS#: 630-01-3 MF: C₂₆H₅₄ FW: 366 MSD LIB#: 1778

CN: hexacosane

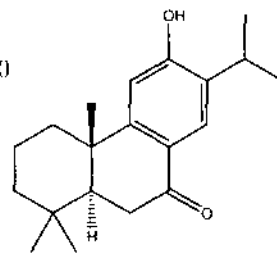
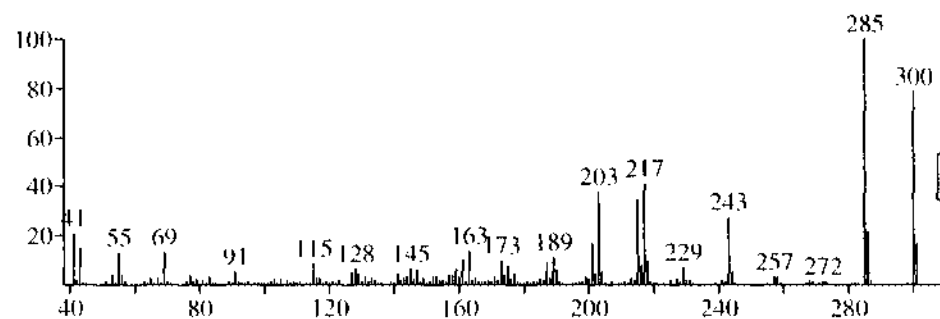
Synonyms: none

Source: paraffin; 0.81% *Malus arnoldiana* (flower), FEJ 5:19(1990); 0.60% *Rosa centifolia*;0.55% *Crithmum maritimum*RT: 65.36 AI: 2629 KI: 2630 **Sugiol**CAS#: 511-05-7 MF: C₂₀H₂₈O₂ FW: 300 MSD LIB#: 1776

CN: 9(1H)-Phenanthrenone, 2,3,4,4a,10,10a-hexahydro-6-hydroxy-1,1,4a-trimethyl-7-

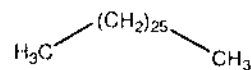
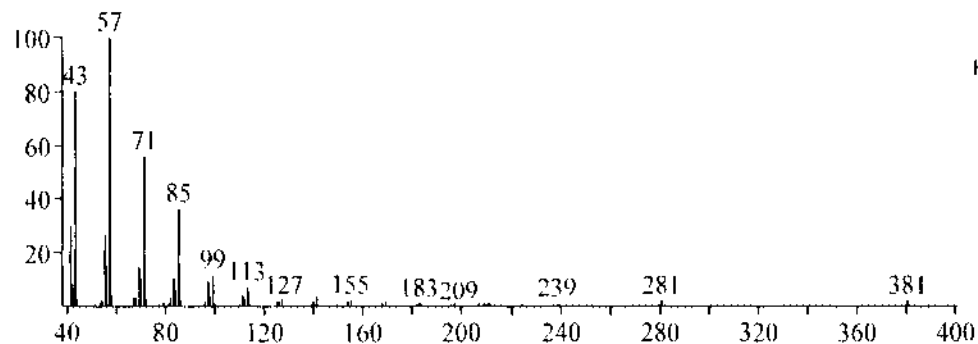
(1-methylethyl)-, (4aS,10aS)-

Synonyms: Podocarpa-8,11,13-trien-7-one, 12-hydroxy-13-isopropyl-

Source: *Taxodium distichum* cones, Waco, TX, RP Adams #9944RT: 67.12 AI: 2700 KI: 2700 **Heptacosane**CAS#: 593-49-7 MF: C₂₇H₅₆ FW: 380 MSD LIB#: 1779

CN: heptacosane

Synonyms: none

Source: paraffin; 8.39% *Malus arnoldiana*, FEJ 5:19(1990); 2.50% *Rhus coriaria*;0.98% *Rosa centifolia*

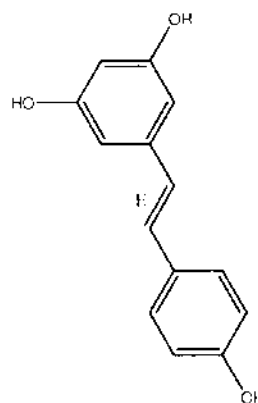
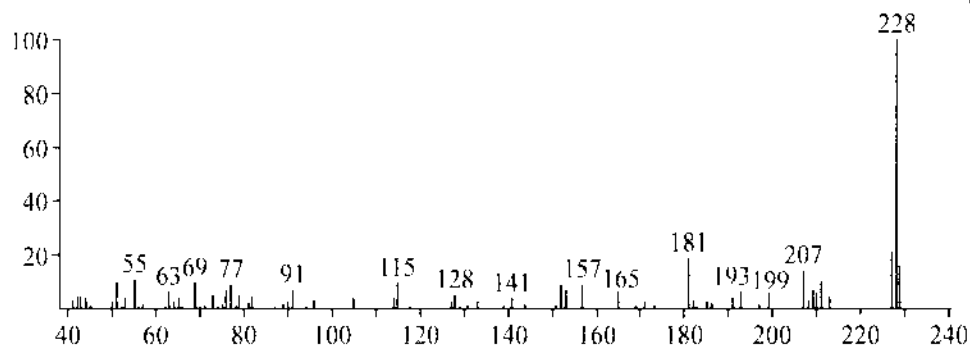
RT: 67.83 AI: 2729 KI: 2729 **Resveratrol**

CAS#: 501-36-0 MF: C₁₄H₁₂O₃ FW: 228 MSD LIB#: 1791

CN: 1,3-benzenediol, 5(1E)-2-(4-hydroxyphenyl)ethenyl)-

Synonyms: trans-resveratrol; stilbene, trans-3,4',5-trihydroxy-;

Source: Sigma Chem.



RT: 69.55 AI: 2800 KI: 2800 **Octacosane**

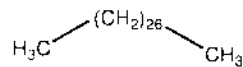
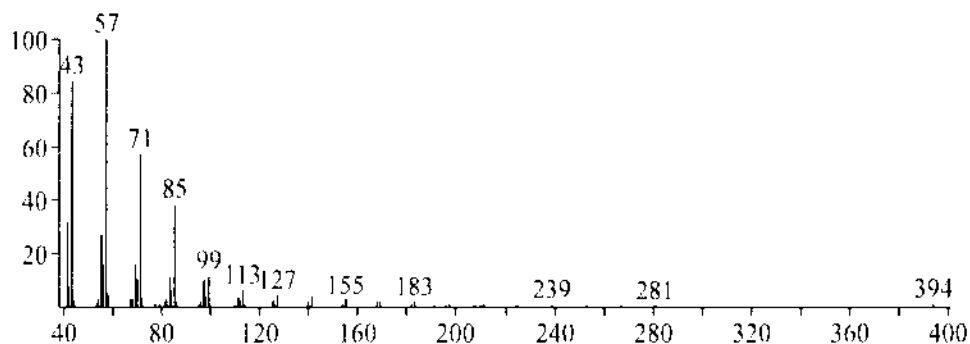
CAS#: 630-02-4 MF: C₂₈H₅₈ FW: 394 MSD LIB#: 1780

CN: octacosane

Synonyms: none

Source: parafilm; 2.87% *Malus arnoldiana*, FIJ 5:19(1990); 0.64% *Crithmum maritimum*;

0.15% *Rhus coriaria*



RT: 71.78 AI: 2900 KI: 2900 **Nonacosane**

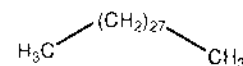
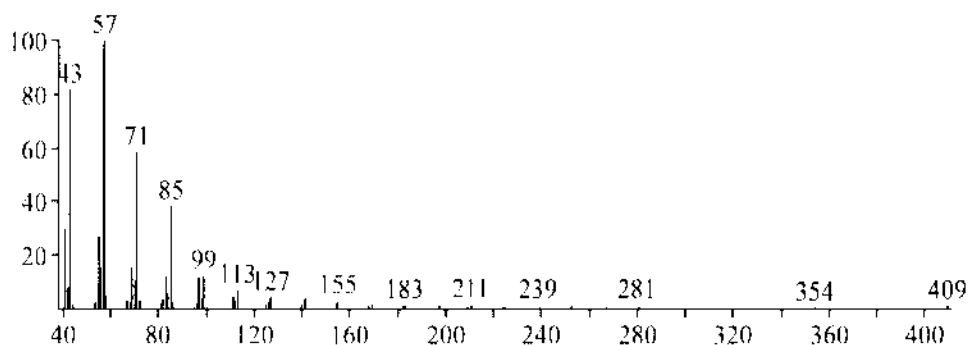
CAS#: 630-03-5 MF: C₂₉H₆₀ FW: 408 MSD LIB#: 1781

CN: nonacosane

Synonyms: none

Source: parafilm; 12.26% *Malus arnoldiana*, FIJ 5:19(1990); 2.00% *Rhus coriaria*;

0.71% *Sideritis condensata*

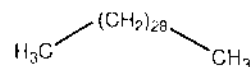
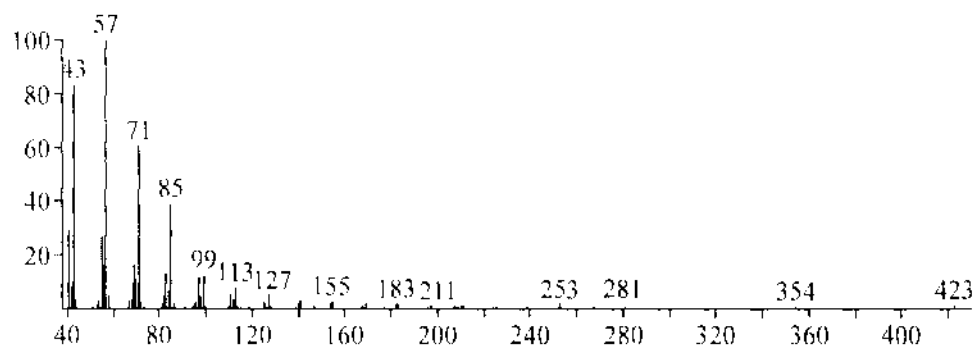


RT: 74.16 AI: 3000 KI: 3000 **Triacontane**CAS#: 638-68-6 MF: C₃₀H₆₂ FW: 422 MSD LIB#: 1782

CN: triacontane

Synonyms: none

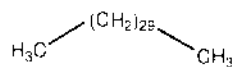
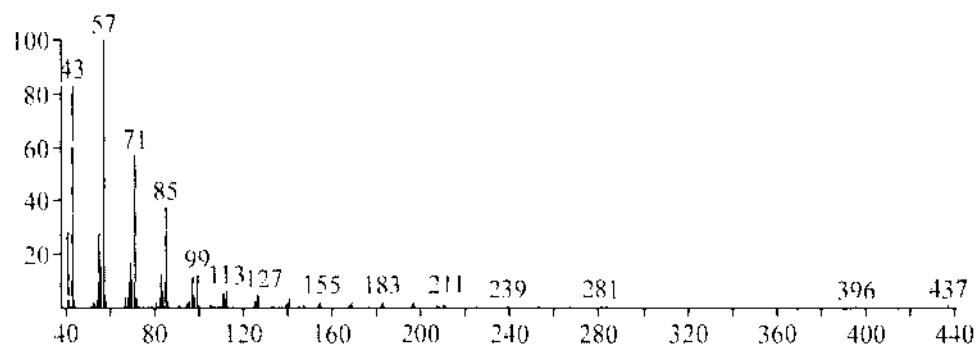
Source: parafilm

RT: 76.35 AI: 3100 KI: 3100 **Untriacontane**CAS#: 630-04-6 MF: C₃₁H₆₄ FW: 436 MSD LIB#: 1783

CN: untriacontane

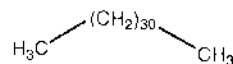
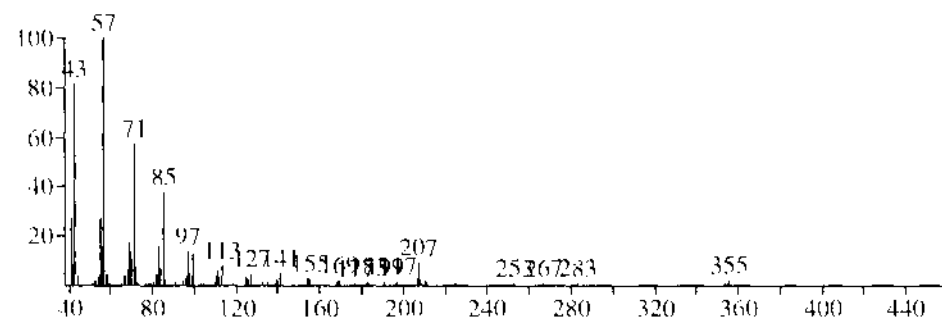
Synonyms: none

Source: parafilm

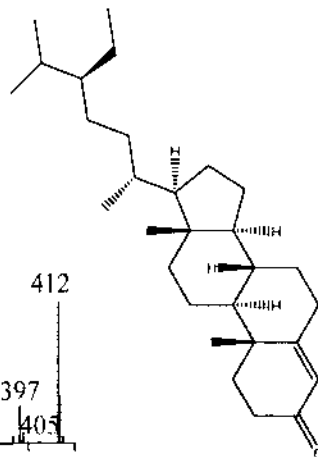
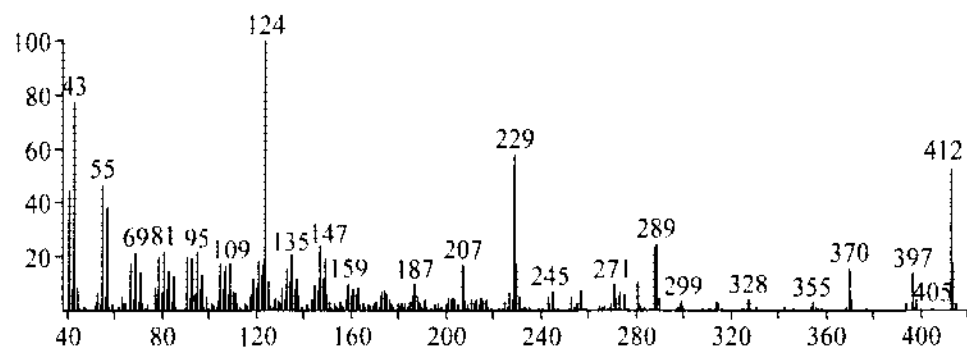
RT: 78.48 AI: 3200 KI: 3200 **Dotriacontane**CAS#: 544-85-4 MF: C₃₂H₆₆ FW: 450 MSD LIB#: 1784

CN: dotriacontane

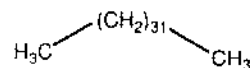
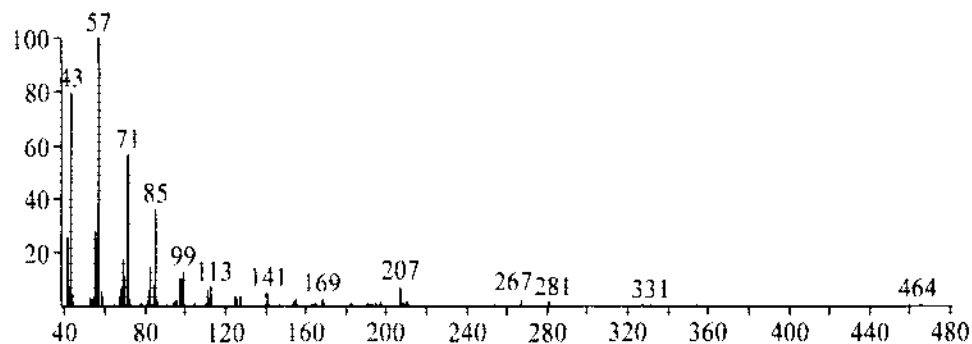
Synonyms: none

Source: parafilm (commercial); 0.26% *Crithium maritimum*, FIJ 6:121(1991)

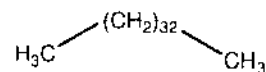
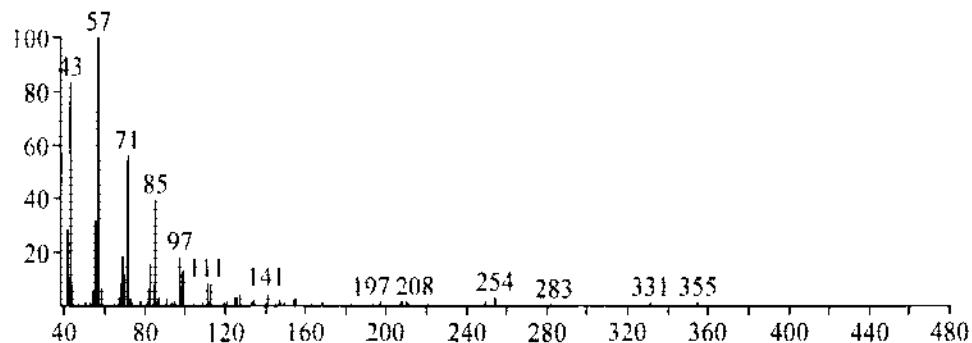
RT: 79.26 AI: 3237 KE: 3237 **Stigmast-4-en-3-one**
 CAS#: 1058-61-3 MF: C₂₉H₄₈O FW: 412 MSD LIB#: 1787
 CN: stigmast-4-en-3-one
 Synonyms: sitostenone
 Source: parafilm



RT: 80.55 AI: 3300 KE: 3300 **Tritriacontane**
 CAS#: 630-05-7 MF: C₃₃H₆₈ FW: 464 MSD LIB#: 1785
 CN: tritriacontane
 Synonyms: none
 Source: parafilm; 0.18% *Crithumum maritimum*, FFI 6:121(1991)



RT: 82.80 AI: 3400 KE: 3400 **Tetratriacontane**
 CAS#: 14167-59-0 MF: C₃₄H₇₀ FW: 478 MSD LIB#: 1786
 CN: tetratriacontane
 Synonyms: none
 Source: parafilm



Appendix IV**CROSS INDEX OF COMMON NAMES**

A

- abhexone; see **Maple furanone** 15.02
 abieta-8,11,13-triene; see **Abietatriene** 49.08
 abietadien-18-al, 7,13-; see **Abietal** 56.87
 abietane, dehydro-; see **Abietatriene** 49.08
 abietatrienic acid, methyl ester, 7,13,15-; see **Methyl 7,13,15-abietatrienoate** 62.05
 abietatriene, 11-hydroxy-12-oxo-7,9(11),13-; see **Taxodione <6-deoxy>** 60.28
 abietinal; see **Abietal** 56.87
 abietinol; see **Abietol** 59.37
 acetaldehyde, phenethyl propyl acetal; see **Hyacinth Body #3** 26.19
 acetic acid furfuryl ester; see **Furfuryl acetate** 7.42
 acetic acid <dodecyl ester>; see **Dodecyl acetate** 33.17
 acetic ether; see **Ethyl acetate** 1.80
 acetophenol, o-; see **Hydroxy acetophenone <2'->** 13.87
 acetoxyanisole, o-; see **Guaiacol acetate <o>** 18.51
 acetoxylema-1,3-dien-8-ol, 7-; see **Elema-1,3-dien-8-ol <7-acetoxy>** 39.89
 acetoxytoluene, 2-; see **Cresol acetate <o>**
 acetoxytoluene, 3-; see **Cresol acetate <meta>** 14.00
 acetoxytoluene, α -; see **Benzyl acetate** 13.96
 acetyl formic acid; see **Pyruvic acid** 2.15
 acetyl-2,2-dimethylchromene, 6-; see **Desmethoxy enecalin** 34.68
 acetylanisole, 4-; see **Pinocarvone** 14.07
 acetylbenzene; see **Acetophenone** 9.99
 acetylethylbenzene, p-; see **Ethyl acetophenone <p>** 19.30
 acetyleugenol; see **Eugenol acetate** 29.70
 acetyl furan, 2-furyl methyl ketone, α -; see **Acetylfuran <2>** 5.19
 acor-4-ene(6,11-oxido-); see **Italicene ether** 30.30
 acoradiene, γ -; see **Alaskene < α >** 29.31
 acoradiene, δ -; see **Alaskene < β >** 28.75
 adoxal; see **Farenal** 29.18
 agandensidial; see **Ugandensidial** 53.50
 aglaene; see **Copaene < α >** 23.49
 agropyrene; see **Capillene** 28.53
 ainnamodial; see **Ugandensidial** 53.50
 alloaromadendrene epoxide; see **Aromadendrene <epo-allo>** 34.42
 allocimene B; see **Ocimene <neo-allo>** 13.20
 allyl 2-aminobenzoate; see **Allyl anthranilate** 28.89
 allyl 3-methylbutanoate; see **Allyl isovalerate** 5.82
 allyl caprate; see **Allyl decanoate** 27.84
 allyl caproate; see **Allyl hexanoate** 10.72
 allyl caprylate; see **Allyl octanoate** 19.22
 allyl cinnamate, trans-; see **Allyl cinnamate <E>** 30.78
 allyl enanthate; see **Allyl heptanoate** 14.86
 allyl pelargonate; see **Allyl nonanoate** 23.65
 allyl catechol methylene ether; see **Safrole** 19.56
 allylguaiacol, 4-; see **Eugenol** 22.70
 allyltetramethoxybenzene; see **Elemicin <6-methoxy>** 32.70
 ambrox; see **Ambroxide** 38.81
 aminodicyclohexane; see **Dicyclohexyl amine** 25.33
 amyl alcohol; see **Pentanol** 2.82
 amyl benzoate; see **Pentyl benzoate** 27.84
 amyl butyrate; see **Pentyl butanoate** 11.08
 amyl ethyl ketone; see **Octanone <3>** 7.19
 amyl isobutyrate; see **Pentyl isobutanoate** 9.62
 amyl methyl ketone; see **Heptanone <2>** 4.74
 amyl propionate; see **Pentyl propanoate** 7.99
 amyl salicylate; see **Pentyl salicylate** 31.85
 amyl vinyl ketone; see **Pentyl isobutanoate** 9.62
 anylbenzene; see **Benzene <pentyl>** 13.73
 anylfuran, 2-; see **Pentyl furan <2>** 7.34
 anastil; see **Guaiacol <o>** 11.00
 anethofuran; see **Dill ether** 15.11
 anethole, cis-p-; see **Anethole <(Z)>** 17.96
 angelic acid, isobutyl ester; see **Isobutyl angelate** 9.45
 angelic acid; see **Citronellyl tiglate <(Z)>**
 anhydroenecalinol; see **Andro enecalinol** 35.80
 anis alcohol, p-; see **Anisyl alcohol <p>** 19.24
 anisalacetone; see **Anisyl methyl ketone** 23.75
 anisaldehyde, 3-; see **Anisaldehyde, <meta>** 15.57
 anisic aldehyde; see **Anis aldehyde <p>**
 anisketone; see **Anisyl methyl ketone** 23.75
 anisole, (trans-4-(1-propenyl); see **Anethole <(E)>** 19.43
 anisole; see **Anisole <p-but-(1E)-enyl>** 23.74
 anisyl propionate; see **Anisyl propanoate** 29.26
 anisylacetone, 2-butanone<4-(4-methoxyphenyl)-; see **Raspberry ketone, methyl ether** 28.55
 anozol; see **Diethyl phthalate (plastizer)** 32.50
 ant oil artificial; see **Furfural** 3.67
 anthranilic acid, butyl ester; see **Butyl anthranilate** 33.56
 anthranilic acid, cyclohexanol ester; see **Cyclohexyl anthranilate** 43.22
 anthranilic acid, geraniol ester; see **Geranyl anthranilate** 54.04
 antioxyne B; see **Butylated hydroxy anisole** 28.34
 apollanol, 11-; see **Caryophyllenyl alcohol** 31.70
 arandene, 1-; see **Indole** 19.76
 aristolene, δ -1(10)-; see **Gurjunene < β >** 25.95
 artemisia acetate < β >; see **Artemisyl acetate** 14.48
 arthole; see **Artemiseole** 6.96
 artificial almond; see **Benzaldehyde** 6.43
 artificial blackberry; see **Benzaldehyde** 6.43
 asarone, trans-; see **Asarone <(E)>** 35.79
 asarone, cis-; see **Asarone <(Z)>** 33.53
 asarone, α -; see **Asarone <(E)>** 35.79
 asarone, β -; see **Asarone <(Z)>** 33.53
 ascabin; see **Benzyl benzoate** 38.90
 ascabiol; see **Benzyl benzoate** 38.90
 ascaricum; see **Ascaridole** 17.28
 ascarisin; see **Ascaridole** 17.28
 astratone; see **Ethylene brassylate** 47.82
 aubepine; see **Anis aldehyde <p>**
 azanaphthalene, 2-; see **Isoquinoline** 17.97
 azulon; see **Guaiazulene** 39.66

B

banana oil; see **Amyl acetate** 5.25
 banana oil; see **Isopentyl acetate** 4.40
 beckeol; see **Baeckeol** 42.58
 benylate; see **Benzyl benzoate** 38.90
 benzyl ethanol; see **Phenyl ethyl alcohol** 11.75
 benzaldehyde, p-hydroxy-; see **Hydroxybenzaldehyde** <4-> 22.65
 benzazole, 1-; see **Indole** 19.76
 benzene acetic acid <hexyl ester->; see **Hexyl phenylacetate** 33.91
 benzenecarbinol; see **Benzyl alcohol** 8.77
 benzenepropanol, 3-; see **Hydrocinnamyl alcohol** 16.87
 benzenepropanol; see **Cinnamaldehyde** <hydro-> 32.88
 benzenethiol <o-methoxy->; see **Methoxythiophenol** <2-> 16.23
 benzopyridine; see **Isoquinoline** 17.97
 benzopyrone, 1,2-; see **Coumarin** 25.97
 benzopyrrole, 2,3-; see **Indole** 19.76
 benzoictronic acid; see **Coumarin** <4-hydroxy-> 40.22
 benzoyl ethyl ether; see **Ethyl benzoate** 14.47
 benzo- α -pyrone; see **Coumarin** 25.97
 benzyl 3-oxobutanoate; see **Benzyl acetylacetate** 28.24
 benzyl alcohol, cinnamate; see **Benzyl cinnamate** 50.22
 benzyl butyrate; see **Benzyl butanoate** 22.13
 benzyl cyanide; see **Benzeneacetonitrile** 12.94
 benzyl ethanoate; see **Benzyl acetate** 13.96
 benzyl isobutyrate; see **Benzyl isobutanoate** 20.09
 benzyl methanoate; see **Benzyl formate** 10.43
 benzyl o-hydroxybenzoate; see **Benzyl salicylate** 42.68
 benzyl propionate; see **Benzyl propanoate** 18.29
 benzylacetaldehyde; see **Cinnamaldehyde** <hydro-> 32.88
 benzylphenol, o-; see **Hydroxydiphenyl methane** <2-> 35.75
 berkeleyaradulene; see **Isocomene** < α -> 24.05
 betulenol, α -; see **Caryophyllene** <14-hydroxy-(Z)-> 35.45
 BHA; see **Butylated hydroxy anisole** 28.34
 BHT; see **Butylated hydroxytoluene** 29.43
 bibenzene; see **Biphenyl** 23.51
 bilicant; see **Coumarin** <7-hydroxy-4-methyl-> 46.69
 biphenyl sulfide; see **Acetophenone** 9.99
 biphenyl <4-methyl->; see **Methyl biphenyl** <4-> 28.35
 bipropionyl; see **Hexanedione** <3,4-> 3.17
 birnenol; see **Amyl acetate** 5.25
 bisabolen-12-ol, β -; see **Bisaboladien-12-ol** <2,7(14)-> 38.95
 bisabolene, cis- γ -; see **Bisabolene** <(Z)- γ -> 29.40
 bisabolene, trans- γ -; see **Bisabolene** <(E)- γ -> 30.03
 bisabolol oxide II; see **Bisabolol oxide B** < α -> 35.08
 bisabolol, dihydro-ar- α -; see **Bisabolatrien-7-ol** <1,3,5-> 32.95
 brevifolin; see **Phloroacetophenone** <2,4-dimethyl ether-> 35.47
 buprenene IV; see **Cuprenene** < γ -> 30.14
 butanal <3-methyl->; see **Isovaleraldehyde** 2.04

butanolide, 4-; see **Hydroxybutanoic acid lactone** <4-> 5.05
 buten-2-one, 4-(2-furyl)-3-; see **Furfuryl acetone** 14.94
 butenyl-, (E)-p-1-; see **Anisole** <p-but-(1E)-enyl-> 23.74
 butyl 4-oxovalerate; see **Butyl levulinate** 17.86
 butyl butyrate; see **Butyl butanoate** 7.58
 butyl caproate; see **Butyl n-hexanoate** <n-> 15.19
 butyl ethanoate; see **Butyl acetate** <1-> 3.31
 butyl ethyl acetic acid; see **Ethyl hexanoic acid** <2-> 12.30
 butyl ketone, di-sec-; see **Dimethyl-4-heptanone** <3,5-> 7.02
 butyl laevulinate; see **Butyl levulinate** 17.86
 butyl laurate; see **Butyl decanoate** 39.86
 butyl laurate; see **Butyl levulinate** 17.86
 butyl o-aminobenzoate; see **Butyl anthranilate** 33.56
 butyl phenethyl ketone; see **Phenyl heptan-3-one** <1-> 29.83
 butyl valerate; see **Butyl pentanoate** 11.19
 butyl α -methylcrotonate; see **Butyl tiglate** 12.68
 butylacrolein, 3-; see **Heptenal** <2E-> 6.27
 butylbutyrolactone(γ -); see **Octalactone** < γ -> 18.02
 butylcarbinol, sec-; see **Methyl-1-butanol** <3-> 2.46
 butylene glycol, 2,3-; see **Butanediol** <2,3-> 3.03
 butylphthalide3-; see **Butyl phthalide** <3-> 34.72
 butyric acid lactone; see **Hydroxybutanoic acid lactone** <4-> 5.05
 butyric acid, propyl ester; see **Propyl butanoate** 4.91
 butyric acid; see **Butanoic acid** 2.83
 butyrolin, 5-octanol-4-one; see **Octanone** <5-hydroxy-4-> 10.23
 butyryl lactone; see **Hydroxybutanoic acid lactone** <4-> 5.05

C

cadin-4-en-1-ol, 10- β -; see **Cubenol** 34.63
 cadin-4-en-1-ol, 1 β ,10 β H-; see **Cubenol** <1-epi-> 33.95
 cadina-1(10),4-diene; see **Cadinene** < δ -> 29.72
 cadina-1(6),4-diene, 7 β H,10 β H-; see **Cadina-1(6),4-diene** <cis-> 27.18
 cadinol, tau-; see **Cadinol** <epi- α -> 34.38
 cadinol, δ -; see **Murolol** < α -> 34.61
 cajeputene; see **Limonene** 8.69
 cajeputol; see **Cineole** <1,8->
 calamenen-10- α -ol; see **Calamenen-10-ol** <trans-> 35.51
 calamenen-10- β -ol; see **Calamenen-10-ol** <cis-> 35.20
 calarene; see **Gurjunene** < β -> 25.95
 camazulene; see **Chamazulene** 37.87
 campheldone; see **Apodophyllene** 36.99
 camphenol acetate <6->; see **Nojigiku acetate** 17.47
 camphogen; see **Cymene** <p-> 8.53
 camphol; see **Borneol** 14.29
 campholenaldehyde, α -; see **Campholenal** < α -> 12.46
 cantabiline; see **Coumarin** <7-hydroxy-4-methyl-> 46.69
 capillen; see **Capillene** 28.53
 capric acid, ethyl ester; see **Ethyl decanoate** 24.40

- capric acid: see **Decanoic acid** 23.02
 caprinic acid: see **Decanoic acid** 23.02
 caprinic aldehyde: see **Decanal** <n-> 15.83
 caproaldehyde dimethyl acetal: see **Hexanal, dimethyl acetal** 7.01
 caproaldehyde: see **Hexanal** 3.19
 caproic acid, 5-methyl-: see **Hexanoic acid** <5-methyl-> 9.03
 caproic acid, β -hydroxy-, ethyl ester: see **Ethyl 3-hydroxy hexanoate** 12.40
 caproic acid: see **Hexanoic acid** 6.84
 caprolactone, γ -: see **Hexalacatone** < γ -> 9.33
 caprolic acid: see **Decenoic acid** <9-> 22.80
 capryl alcohol: see **Octanol** <2-> 7.60
 caprylaldehyde: see **Octanal** <n-> 7.72
 caprylene: see **Octene** <1-> 3.06
 caprylic acid: see **Octanoic acid** 14.37
 caprylic alcohol: see **Octanol** <n-> 10.11
 caprylyl acetate: see **Octanol acetate** 16.30
 carbomethoxyaniline, 2-: see **Anthranilate** <ethyl-> 21.72
 carboxystyrene, trans- β -: see **Cinnamic acid** <(E)-> 26.80
 carvacryl acetate: see **Carvacrol acetate** 23.32
 carota-1,4-diene: see **Dauca-5,8-diene** 27.60
 carpic alcohol: see **Hexanoic acid** <5-methyl-> 9.03
 carvacryl ethyl ether: see **Carvacrol, ethyl ether** 20.10
 carvomenthane: see **Menthan-2-one** <cis-p-> 15.55
 carvomenthane: see **Menthan-2-one** <trans-p-> 15.75
 carvomenthenol, 4-: see **Terpinen-4-ol** 14.66
 carvomenthenone, 3-: see **Piperitone** 17.95
 caryophylladienol I: see **Caryophylla-4(12),8(13)-dien-5- β -ol** 34.40
 caryophyllene epoxide β -: see **Caryophyllene oxide** 32.16
 caryophyllene β -: see **Caryophyllene** <(E)-> 25.36
 caryophyllene, iso-: see **Caryophyllene** <(Z)-> 24.95
 caryophyllene, α -: see **Humulene** < α -> 26.82
 caryophyllene, β -: see **Caryophyllene** <(E)-> 25.36
 caryphylladienol II: see **Caryophylla-4(12),8(13)-dien-5- α -ol** 34.40
 cedr-8(15)-en-9-one: see **Cedren-9-one** < β -> 34.05
 cedr-8(15)-ene: see **Cedrene** < β -> 25.42
 cedr-8-ene: see **Cedrene** < α -> 25.06
 cedran-8-ol, 8- β -: see **Cedrol** 32.91
 cedran-8-ol, acetate, 8- β -: see **Cedryl acetate** 39.21
 cedran-8-ol: see **Cedrol** <epi-> 33.59
 cedran-9-one, 8- β -: see **Cedranone** <5-> 34.00
 cedran-9- α -ol, 8- β -: see **Cedranol** <5-neo-> 36.14
 cedran-9- α -ol: see **Cedranol** <5-iso-> 35.68
 cedrane, 8,9-epoxide, 8.xi-: see **Cedrene epoxide** < α -> 31.84
 cedrane, 8- α -: see **Cedrane** <epi-> 26.62
 cedrane, 8- β -: see **Cedrane** 26.37
 cedrelanol: see **Cadinol** <epi- α -> 34.38
 cedren-4-one, α -: see **Biotone** < β -> 33.18
 cedrene, 1,7-di-epi- β -: see **Funebrene** <2-epi- β -> 25.11
 cedrene, di-epi- α -, 1,7-: see **Funebrene**, < α -> 24.71
 cedrene, di-epi- β -, 1,7-: see **Funebrene** < β -> 25.19
 cedrenol acetate: see **Cedr-8(15)-en-9- α -ol, acetate** 38.26
 cedrenol: see **Cedr-8(15)-en-9- α -ol** 34.83
 cedrol acetate: see **Cedryl acetate** 39.21
 celestolide: see **Crysolide** 37.56
 cellusolve acetate: see **Ethoxy ethyl acetate** <2-> 5.03
 cellusolve: see **Ethoxy ethanol** <2-> 2.33
 cephol: see **Citronellol** 16.80
 cerulignol: see **Eugenol** <dihydro-> 23.15
 cetane: see **Hexadecane** <n-> 32.89
 cetanol, cetyl alcohol: see **Hexadecanol** 43.03
 cetene: see **Hexadecene** <1-> 32.44
 cetone, α -: see **Ionone** <isomethyl- α -(E)-> 27.92
 cetyl acetate: see **Hexadecyl acetate** 47.45
 cevadic acid: see **Tiglic acid** 5.20
 champaca camphor: see **Guaïol** 32.92
 champacol: see **Guaïol** 32.92
 chartabomone: see **Isotorquatone** <demethyl-> 41.96
 chavicol methyl ether: see **Methyl chavicol** 15.57
 cholestil: see **Coumarin** <7-hydroxy-4-methyl-> 46.69
 chromanone, 2-: see **Coumarin** <3,4-dihydro-> 23.66
 cinnamal: see **Cinnamaldehyde** <(Z)-> 16.53
 cinnametin: see **Benzyl cinnamate** 50.22
 cinene: see **Limonene** 8.69
 cinnamic acid cis-, methyl ester: see **Methyl cinnamate** <(Z)-> 20.18
 cinnamic acid trans-, benzyl ester: see **Benzyl cinnamate** 50.22
 cinnamic acid, isobutyl ester: see **Isobutyl cinnamate** 33.80
 cinnamic acid, trans-, methyl ester: see **Methyl cinnamate** <(E)-> 23.58
 cinnamyl acetate trans-: see **Cinnamyl acetate** <(E)-> 26.46
 cinnamyl acetate, cis-: see **Cinnamyl acetate** <(Z)-> 24.10
 cinnamyl alcohol, cis-: see **Cinnamyl alcohol** <(Z)-> 18.38
 cinnamyl alcohol, trans-: see **Cinnamyl alcohol** <(E)-> 20.36
 citral a: see **Geranial** 18.62
 citral b: see **Neral** 17.32
 citral, E-: see **Geranial** 18.62
 citral, Z-: see **Neral** 17.32
 citronellol butanoate: see **Citronellyl butanoate** 30.05
 citronellol isobutyrate: see **Citronellol isobutanoate** 28.07
 citronellyl butyrate: see **Citronellyl butanoate** 30.05
 citronellyl propionate: see **Citronellyl propanoate** 26.47
 citronellyl valerate: see **Citronellyl pentanoate** 33.82
 clorius: see **Methyl benzoate** 11.07
 coerulignol: see **Eugenol** <dihydro-> 23.15
 coniferaldehyde: see **Cinnamaldehyde** <4-hydroxy-3-methoxy-> 37.78

coniferyl alcohol, cis-: see **Coniferyl alcohol <(Z)->** 35.48
 coniferyl alcohol, trans-: see **Coniferyl alcohol <(E)->** 37.98
 copaen-11-ol, 2-: see **Copaen-11-ol < α ->** 30.43
 cortaldehyde<3-methyl->: see **Methyl-2-butenal <3->** 2.97
 cortonic acid, 2-methyl-, ethyl ester, (E)-: see **Ethyl tiglate** 5.78
 coumarinol, 4-: see **Coumarin <4-hydroxy->** 40.22
 eragine: see **Anis aldehyde <p->**
 creosol: 4-methylguaicol: see **Cresol <2-methoxy-p->** 15.27
 cresatin: see **Cresol acetate <meta->** 14.00
 cresol, 5-(1,5-dimethyl-4-hexenyl), o-: see **Xanthorrhizol** 38.64
 cresol, α -phenyl-, o-: see **Hydroxydiphenyl methane <2->** 35.75
 cresyl caprylate, p-: see **Cresol octanoate <p->** 39.56
 cresyl phenylacetate, m-: see **Benzeneacetic acid, 3-methylphenyl ester** 41.37
 crotonaldehyde, 2-methyl, (E)-: see **Tiglic aldehyde** 2.58
 crotonic acid, 2-methyl-, hexyl ester (E)-: see **Hexyl tiglate** 21.54
 crotonic acid, 2-methyl, methyl ester: see **Methyl tiglate** 4.28
 crotonic acid, cis-2-methyl-2-butenate: see **Isobutyl angelate** 9.45
 crotonic acid, hexyl ester, hexyl crotonate: see **Hexyl (2E)-butanoate** 17.49
 crotonic acid, trans-2-methyl-: see **Tiglic acid** 5.20
 crotonic acid <3-methyl->: see **Butenoic acid, 3-methyl-2-** 4.60
 cubeb camphor: see **Cubebol** 29.41
 cubebol, 4-epi-: see **Cubebol <epi->** 28.55
 cumin alcohol: see **Cymen-7-ol <p->** 19.74
 cuminol acetate: see **Cymen-7-ol acetate <p->** 25.51
 cuminol: see **Cymen-7-ol <p->** 19.74
 cuminyl acetate: see **Cymen-7-ol acetate <p->** 25.51
 eumol: see **Cumene** 5.63
 euprenene 4: see **Cuprenene < γ ->** 30.14
 euteazul: see **Guaiazulene** 39.66
 cyclalial: see **Hydroxy citronellal** 19.60
 cyclamal: see **Cyclamen aldehyde** 27.10
 cyclene: see **Tricyclene** 5.53
 cyclogeraniol acetate < α ->: see **Cyclogeranyl acetate < α ->** 28.02
 cyclogeraniolene, δ -: see **Cyclohexene <3,5,5-trimethyl->** 2.83
 cyclogeraniolene, ϵ -: see **Cyclohexene <3,3,5-trimethyl->** 3.04
 cyclohexadiene, 1,3-: see **Phellandrene < α ->** 7.85
 cyclohexanol formate: see **Cyclohexyl formate** 6.49
 cyclohexyl propionate: see **Cyclohexyl propanoate** 12.79
 cyclopentanone, 2-geranyl-: see **Apritone <E->** 37.04
 cyclosia: see **Hydroxy citronellal** 19.60
 cyclotrylideneacetone, α -: see **Ionone <(E)- α ->** 25.81

cymen-3-ol, p-: see **Thymol** 19.71
 cymol, p-: see **Cymene <p->** 8.53
 cyperenone: see **Cyperotundone** 36.56

D

damascenone, trans- β -: see **Damascenone <(E)- β ->** 23.87
 dauca-8,11-diene: see **Isodaucene** 28.83
 davanone, cis-hydroxy-: see **Davanone-2-ol < β ->** 37.41
 davanone, trans-: see **Davanone B** 31.46
 decadienal, 2-(trans, 4-trans-: see **Decadienal <(2E,4E)->** 20.87
 decadienal, 2-(trans,4 cis-: see **Decadienal <(2E,4Z)->** 19.86
 decalin, cis-: see **Naphthalene <cis-decahydro->** 11.46
 decalin, trans-: see **Naphthalene <trans-decahydro->** 9.77
 decamethylene glycol: see **Decanediol <1,10->** 30.75
 decamethylenediol: see **Decanediol <1,10->** 30.75
 decanal, trans-4-: see **Decenal <4E->** 15.60
 decanol acetate: see **Decyl acetate** 24.94
 decanolide γ -: see **Decalactone < γ ->** 27.35
 decanolide, 4-: see **Decalactone < γ ->** 27.35
 decanolide, 5-: see **Decalactone < δ ->** 28.55
 decanyl acetate: see **Decyl acetate** 24.94
 decenal, cis-4-: see **Decenal <4Z->** 15.48
 decenal, trans-2-: see **Decenal <2E->** 18.44
 decenol, cis-4-: see **Decen-1-ol <4Z->** 18.24
 decenol, trans-2-: see **Decen-1-ol <2E->** 18.80
 decenol, trans-4-: see **Decen-1-ol <4E->** 18.38
 decenyl acetate, trans-2-: see **Decenyl acetate <2E->** 24.96
 decyl alcohol, see-: see **Decanol <2->** 15.72
 decyl alcohol: see **Decanol <n->** 18.73
 decyl propionate: see **Decyl propanoate** 28.89
 decylenic alcohol: see **Dec-9-en-1-ol** 18.57
 dehydroabietinal: see **Abietal, dehydro** 55.74
 dehydroabietyl alcohol: see **Abietol, dehydro** 58.42
 dehydrodeoxybaimuxinol: see **Agarofuran < α ->** 30.79
 dehydro-p-cymene: see **Cymenene <p->** 11.09
 delegol T: see **Hydroxydiphenyl methane <2->** 35.75
 deoxybaimuxinol: see **Dihydro agarofuran < β ->** 28.95
 desmethylenecycalin: see **Eupatoriochromene** 38.98
 dextrocamphoric acid: see **Camphoric acid** 34.20
 diacetone: see **Pentanone <4-hydroxy-4-methyl-2->** 3.72
 diacetylbenzene, p-: see **Acetylacetophenone <p->** 26.47
 diamyl carbinol: see **Undecanol <6->** 19.51
 diathesin: see **Benzenemethanol <2-hydroxy->** 18.22
 diathesin: see **Benzenemethanol <2-hydroxy->** 18.22
 dichlorobenzene, p-: see **Dichlorobenzene <1,4->** 8.18
 diethoxy-2-hexene, (E)-1,1-: see **Hexenal <2E->, Diethyl acetal** 11.42
 diethoxy-2Z-hexene, 1,1-: see **Hexenal <2Z->, diethyl acetal** 10.80
 diethyl butanedioate: see **Diethyl succinate** 14.76
 diethyl ether: see **Ethyl ether** 1.63

- dihydro citronellyl acetate; see **Dihydro citronellol acetate** 21.04
- dihydro myrcene; see **Citronellene** < β -> 6.15
- dihydro-ar-turmerone; see **Turmerone** <ar-dihydro-> 32.70
- dihydrocallitrisin; see **Callitrisin** <dihydro-> 46.25
- dihydrocarvyl acetate; see **Dihydro carveol acetate** 20.48
- dihydrocitral, 2,3-; see **Citronellal** 13.58
- dihydroeudesmol; see **Eudesmol** <dihydro-> 35.25
- dihydroeugenol acetate; see **Eugenol acetate** <dihydro-> 30.30
- dihydro-ionone, α , β -; see **Ionone** <dihydro- β -> 26.08
- dihydro-ionone, 7,8-; see **Ionone** <dihydro- β -> 26.08
- dihydrojasmin lactone; see **Decalactone** < δ -> 28.55
- dihydrotagetone; see **Tagetone** <dihydro-> 9.51
- dihydrotoluene, 2,3-; see **Cyclohexadiene** <1-methyl-1,3-> 3.77
- dihydrotoluene, 3,4-; see **Cyclohexadiene** <2-methyl-1,3-> 3.63
- dihydrotoluene <2,5->; see **Methyl-1,4-cyclohexadiene** 3.25
- dihydroxydecane, 1,10-; see **Decanediol** <1,10-> 30.75
- dihydroxytoluene, 2,3-; see **Catechol** <3-methyl-> 18.20
- diisopropyl ketone; see **Dimethyl-3-pentanone** <2,4-> 3.06
- diktaminin; see **Dictamine** 44.97
- dimethoxy geraniol; see **Citral** <dimethoxy-(E)-> 21.90
- dimethoxy nerol; see **Citral** <dimethoxy-(Z)-> 20.93
- dimethoxyphenylmethane; see **Benzaldehyde, dimethyl acetal** 11.90
- dimethoxypsoralen, 5,8-; see **Isopimpinellin** 54.63
- dimethoxy-6,7-furanocoumarin, 5,8-; see **Isopimpinellin** 54.63
- dimethylene; see **Chamazulene** 37.87
- dimethyl acetal decanal; see **Decane** <1,1-dimethoxy-> 23.52
- dimethyl salicylate; see **Methyl o-anisate** 21.72
- dimethyl-2,8-octanediol, 2,6-; see **Hydroxy citronellol** 22.83
- dimethyl-2-butenolide, 4,4-; see **Methyl pent-2-enolide** <4-> 6.21
- dimethyl-6-octenal, 3,7-; see **Citronellal** 13.58
- dimethyl-6-octenyl ester, 3,7-; see **Citronellyl tiglate** <(Z)-> 35.06
- dimethylallyl acetate(1,1); see **Buten-2-ol acetate** <2-methyl-3-> 2.88
- dimethylallyl acetate; see **Buten-1-ol, 3-methyl-2-, acetate** 5.35
- dimethylallyl alcohol; see **Buten-1-ol** <3-methyl-2-> 2.85
- dimethylbenzenamine, 2,6-; see **Dimethyl aniline** <2,6-> 14.21
- dimethylbenzylcarbinol acetate; see **Dimethyl phenethyl acetate** < α , α -> 21.04
- dimethylcyclohexene carboxaldehyde; see **Vertocitral C** <cis-> 10.61
- dimethylcyclohexene carboxaldehyde; see **Vertocitral C** <trans-> 11.72
- dimethylstyrene, α -3-; see **Cymenene** <meta-> 10.82
- dimethylstyrene, α -p-; see **Cymenene** <p-> 11.09
- dimethylstyrol; see **Dimethyl styrene** <2,5-> 11.44
- dimethylvinylcarbinyl acetate; see **Buten-2-ol acetate** <2-methyl-3-> 2.88
- dimethylxanthoxylin, 3,0-; see **Acetophenone** <2,4,6-trimethoxy-3-methyl-> 36.80
- dimethoxy- β -methyl styrene, (Z)-3,4-; see **Methyl isoeugenol** <(Z)-> 26.78
- dimethylethylene glycol; see **Butanediol** <2,3-> 3.03
- dipentene; see **Limonene** 8.69
- diphenyl ketone; see **Benzophenone** 33.92
- diphenyl; see **Biphenyl** 23.51
- dipropyl sulfide; see **Disulfide, dipropyl** 11.60
- dipropylcarbinol; see **Heptanol** <4-> 4.68
- dodecanal, trans-2-; see **Dodecenal** <(E)-2-> 27.33
- dodecanoic acid, butyl ester; see **Butyl decanoate** 39.86
- dodecanolide, 4-; see **Dodecalactone** < γ -> 35.85
- dodecanolide, 5-; see **Dodecalactone** < δ -> 36.91
- dodecanone, 2-; see **Methyl decyl ketone** 24.09
- dodecyl alcohol; see **Dodecanol** <n-> 27.52
- dragosanol; see **Bisabolol** < α -> 36.17
- drim-7-en-11-ol; see **Drimenol** 39.16
- drim-7-ene-11,12-dial; see **Polygodial** 47.85
- drim-8-en-7-one; see **Drimenone** 40.12

E

- elleryone; see **Zierone** 31.86
- elsholtzine, dehydro-; see **Elsholtzia ketone** <dehydro-> 20.29
- elsholtzine; see **Elsholtzia ketone** 15.86
- enanthaldehyde; see **Heptanal** 4.98
- enanthic alcohol; see **Heptanol** <n-> 6.63
- enanthole; see **Heptanal** 4.98
- eperuic acid, methyl ester; see **Methyl eperuate** 54.15
- epiabetinal, 4-; see **Abietal** <4-epi-> 56.44
- epicyclocolorenone; see **Cyclocolorenone** <epi-> 39.48
- epijunicedran-8-one, 6-; see **Junicedranone** 35.38
- epizizanone2-; see **Zizanone** <epi-> 35.54
- epizonarene, ent-10-; see **Epizonarene** 28.88
- epoxycaryophyllene; see **Caryophyllene oxide** 32.16
- epoxycedrene, α -; see **Cedrene epoxide** < α -> 31.84
- epoxyisodihydrocarvone, 1,6-; see **Carvone oxide** <trans-> 19.02
- epoxymurrolane, 4,10-; see **Amorphane** <trans-4,10-epoxy-> 27.91
- epoxy-murolane, 4,10-; see **Amorphane** <cis-4,10-epoxy-> 28.05
- epoxy-ocimene <cis->; see **Epoxy-ocimene** <Z-> 12.72
- epoxy-ocimene <trans->; see **Epoxy-ocimene** <E-> 13.10
- epoxy-p-menthane, 1,8-; see **Cineole** <1,8->
- eremophila-1(10),11-dien-9-one; see **Eremophilone** 38.02
- eremophila-1(10),7(11)-dien-12-ol, 4 β H,5 α -; see **Isovalencenol** <E-> 40.15
- eremophila-9,11-diene, 4 β H,5 α -; see **Aristolochene** 28.28

eremophiladiene, 9,11-; see **Aristolochene <4,5-di-epi->** 27.63
 esdragol; see **Methyl chavicol** 15.57
 espatulenol; see **Spathulenol** 31.96
 esperone; see **Crysolide** 37.56
 estragole; see **Methyl chavicol** 15.57
 ethanone, 1-(5-methyl-2-furanyl)-; see **Furan, 2-acetyl-5-methyl-** 8.95
 ethoxycarbonylbut-1-ene, 4-; see **Ethyl pent-4-enoate** 4.65
 ethyl (*Z*)-geranate; see **Ethyl nerolate** 22.48
 ethyl 2-methyl-3-pentenoate; see **Fruitalaur** 6.00
 ethyl 2-methylvalerate; see **Ethyl 2-methyl pentanoate** 5.81
 ethyl 3-methylbutanoate; see **Ethyl isovalerate** 4.04
 ethyl 3-methylvalerate; see **Ethyl 3-methyl pentanoate** 6.34
 ethyl 4-oxovalerate; see **Ethyl levulinate** 9.64
 ethyl butyrate; see **Ethyl butanoate** 3.22
 ethyl caprate; see **Ethyl decanoate** 24.40
 ethyl caproate; see **Ethyl hexanoate** 7.71
 ethyl caproic acid, 2-; see **Ethyl hexanoic acid <2->** 12.30
 ethyl caprylate; see **Ethyl octanoate** 15.63
 ethyl cis-cinnamate; see **Ethyl cinnamate <(Z)->** 23.55
 ethyl dodecylate; see **Ethyl dodecanoate** 32.68
 ethyl enanthate; see **Ethyl heptanoate**
 ethyl ethanoate; see **Ethyl acetate** 1.80
 ethyl glycol acetate; see **Ethoxy ethyl acetate <2->** 5.03
 ethyl glycol; see **Ethoxy ethanol <2->** 2.33
 ethyl heptyl ketone; see **Decanone <3->** 15.16
 ethyl heptylate; see **Ethyl heptanoate**
 ethyl heptyne carbonate; see **Ethyl-2-octynoate** 19.40
 ethyl isopentanoate; see **Ethyl isovalerate** 4.04
 ethyl laevulinate; see **Ethyl levulinate** 9.64
 ethyl laurate; see **Ethyl dodecanoate** 32.68
 ethyl myristate; see **Ethyl tetradecanoate** 40.25
 ethyl nonyl ketone; see **Dodecanone <3->** 24.15
 ethyl *o*-aminobenzoate; see **Anthranilate <ethyl->** 25.23
 ethyl octine carbonate; see **Ethyl 2-nonynoate** 23.78
 ethyl palmitate; see **Ethyl hexadecanoate** 47.09
 ethyl pentyl ketone; see **Octanone <3->** 7.19
 ethyl phenyl ethyl ketone; see **Phenyl pentan-3-one <1->** 21.80
 ethyl phenylacetate; see **Benzene acetic acid, ethyl ester** 17.69
 ethyl propionate; see **Ethyl propanoate** 2.34
 ethyl Pyrazine; see **Pyrazine <2-ethyl->** 5.29
 ethyl stearate; see **Ethyl octadecanoate** 53.43
 ethyl trans-2-decenoate; see **Ethyl-(2E)-decenoate** 25.33
 ethyl trans-2-hexenoate; see **Ethyl hex-(2E)-enoate** 9.20
 ethyl trans-4-decenoate; see **Ethyl-4E-decenoate** 23.75
 ethyl trans-cinnamate; see **Ethyl cinnamate <(E)->** 27.37
 ethyl valerate; see **Ethyl pentanoate** 4.96
 ethyl vinyl carbinol; see **Penten-3-ol <1->** 2.16
 ethyl α -toluate; see **Benzene acetic acid, ethyl ester** 17.69

ethyl β -furylpropionate; see **Ethyl-3(2-furyl)-propanoate** 14.85
 ethyl-4-butanol, 2-; see **Pentanol <3-methyl->** 3.76
 ethylhexyl ethanoate, 2-; see **Ethyl hexyl acetate <2->** 13.59
 ethylprotal; see **Vanillin <ethyl->** 26.83 see **Vanillin <ethyl->** 26.83
 euasarone; see **Asarone <gamma->** 31.78
 eucalyptol; see **Cineole <1,8->**
 eucapur; see **Cineole <1,8->**
 eucazulen; see **Guaiazulene** 39.66
 eueol; see **Guaiaicol acetate <o->** 18.51
 eudesm-11-en-4-ol, 5 β ,10 α -; see **Intermedeol** 35.42
 eudesm-3-en-11-ol; see **Eudesmol <alpha->** 34.91
 eudesm-4-en-11-ol; see **Eudesm-7(11)-en-4-ol** 36.74
 eudesm-4-en-3-one, <11 hydroxy->; see **Carissone** 44.84
 eudesma-3,11-diene; see **Selinene <alpha->** 28.74
 eudesma-3,7(11) diene; see **Selina-3,7(11)-diene** 30.66
 eudesma-4(14),11-diene; see **Selinene <beta->** 28.37
 eudesma-4(14)-en-11-ol; see **Eudesmol <beta->** 34.79
 eudesma-4(14)-en-6 α -ol; see **Junenol** 33.61
 eudesma-4,6-diene; see **Selinene <delta->** 28.49
 eudesmadiene; see **Eudesma-6,11-diene <cis->** 28.36
 eudesmene, β -; see **Selinene <beta->** 28.37
 eurogale; see **Coumarin <7-hydroxy-4-methyl->** 46.69
 exaltolide; see **Cyclopentadecanolide** 41.56

F

farnesene, cis- β -; see **Farnesene <(Z)-beta->** 26.33
 farnesene, trans- β -; see **Farnesene <(E)-beta->** 26.92
 farnesenic acid, trans,trans-; see **Farnesoic acid <2E,6E->** 40.98
 farnesol, 2-cis,6-trans-; see **Farnesol <(Z,E)->** 36.68
 farnesol, cis, cis-; see **Farnesol <(Z,Z)->** 37.36
 farnesol, cis, cis-; see **Farnesol <2E,6E->** 38.30
 farnesol, trans, trans-; see **Farnesol <(E,E)->** 37.58
 farnesyl acetate, trans, trans-; see **Farnesyl acetate <(2E,6E)->** 42.01
 farnesyl acetate, 2-cis-6 trans-; see **Farnesyl acetate <(2Z,6E)->** 41.16
 farnesyl acetone, cis, cis-; see **Farnesyl acetone <Z,Z->** 42.54
 farnesyl acetone, cis, trans-; see **Farnesyl acetone <Z,E->** 43.55
 farnesyl acetone, trans, cis-; see **Farnesyl acetone <E,Z->** 43.45
 farnesyl acetone, trans, trans-; see **Farnesyl acetone <E,E->** 44.37
 fenchol, α -; see **Fenchol <endo->** 12.10
 fenchol, β -; see **Fenchol <exo->** 12.28
 ferruginol, 9-dehydro; see **Ferruginol <6,7-dehydro->** 56.92
 ferulaldehyde; see **Cinnamaldehyde <4-hydroxy-3-methoxy->** 37.78
 fixol; see **Hydroxy citronellal** 19.60
 flonine; see **Amlyl cinnamaldehyde <(E)->** 35.48
 flonine; see **Amlyl cinnamaldehyde <(Z)->** 34.73

folione: see **Methyl heptine carbonate** 15.60
 formylanisole, p-: see **Anis aldehyde <p>**
 formylfuran, 2-: see **Furfural** 3.67
 formylphenol, p-: see **Hydroxybenzaldehyde <4>** 22.65
 formylphloroglucinal: see **Trihydroxy benzaldehyde <2,4,6>** 41.06
 frambione: see **Raspberry ketone** 30.67
 freesiol: see **Heptanol <2,6-dimethyl-2>** 7.48
 frescolate: see **Menthyl lactate <neo>** 27.44
 frescolate: see **Menthyl lactate** 28.05
 froggatt ether: see **Dihydroagarofuran<4-epi-cis>** 28.80
 furfuryl alcohol, propionate: see **Furfuryl propanate** 10.88
 furfuryl butyrate: see **Furfuryl butanoate** 14.50
 furfuryl sulfide: see **Difurfuryl sulfide** 27.10
 furfuryl valerate: see **Furfuryl pentanoate** 18.82
 furfurylidenacetone: see **Furfuryl acetone** 14.94
 furo(2,3-b)quinoline, 4-methoxy-: see **Dictamine** 44.97
 furoic acid, 2-: see **Methyl 2-furoate** 6.90
 furoic acid, phenethyl ester, 2-: see **Phenethyl 2-furoate** 37.28
 furole, α -: see **Furfural** 3.67

G

gastrodigenin: see **Benzenemethanol <4-hydroxy>** 21.76
 gentanol: see **Heptanol <n>** 6.63
 geraniol 2-methyl butyrate: see **Geranyl 2-methyl butanoate** 32.93
 geraniol acetate: see **Geranyl acetate** 23.70
 geraniol butyrate: see **Geranyl butanoate** 31.36
 geraniol formate: see **Geranyl formate** 20.11
 geraniol isobutanoate: see **Geranyl isobutanoate** 29.41
 geraniol pentanoate: see **Geranyl valerate** 35.02
 geranyl 2-methyl butyrate: see **Geranyl 2-methyl butanoate** 32.93
 geranyl 3-methylbutanoate: see **Geranyl isovalerate** 33.15
 geranyl acetone, trans-: see **Geranyl acetone** 26.85
 geranyl butanoate: see **Geranyl butanoate** 31.36
 geranyl isobutyrate: see **Geranyl isobutanoate** 29.41
 geranyl pentanoate: see **Geranyl valerate** 35.02
 geranylacetone, cis-: see **Neryl acetone** 26.06
 germacrene-1(10),4(15),5-triene: see **Germacrene D** 28.15
 germacrene-1(10),4,7(11)-triene: see **Germacrene B** 31.24
 germacrene-1(10),4-dien-11-ol, 7 β H-: see **Hedycaryl** 30.72
 germacrene-3,7(11),9-trien-6-one, (E,E)-: see **Germacrene** 36.48
 glycerin: see **Glycerol** 6.35
 glycerol triacetate: see **Triacetin** 22.31
 glycerol tripropanoate: see **Tripropionin** 33.00
 glyceryl alcohol: see **Glycerol** 6.35
 guai-1(5)-en-11-ol: see **Guaiol** 32.92
 guai-11-en-10-ol: see **Pogostol** 34.89
 guaia-1(5),11-diene: see **Guaiene < α >** 26.20
 guaia-1(5),7(11)-diene: see **Guaiene <cis- β >** 28.51

guaiaic acetate: see **Guaiol acetate** 37.68
 guaiastil: see **Guaiacol <o>** 11.00
 guaiyl acetate: see **Guaiol acetate** 37.68
 guaniol: see **Geraniol** 17.95
 gymnomitrene: see **Barbatene < β >** 26.32
 gymnomitrene< α >: see **Barbatene < α >** 24.92

H

heliotropyl acetate: see **Piperonyl acetate** 28.95
 hendecanal: see **Undecanal** 20.45
 hendecane: see **Undecane <n>** 11.48
 hendecanol: see **Undecanol <n>** 23.19
 hendecanone, 2-: see **Undecanone <2>** 19.90
 hendecenal, 9-: see **Undec-9E-en-1-al** 20.70
 hept-2-yl ethanoate: see **Heptyl acetate <2>** 9.19
 hept-4-enol, cis-: see **Hepten-1-ol <4Z>** 6.63
 heptadienal, trans, trans-2,4-: see **Heptadienal <2E,4E>** 7.99
 heptanal, trans-2-: see **Heptenal <2E>** 6.27
 heptanolide, 4-: see **Heptalactone < γ >** 13.38
 hepten-2-one, trans-3-: see **Hepten-2-one <3E>** 5.71
 heptenal, 2,6-dimethyl-5-: see **Bergamal** 9.67
 heptene, 7,7-diethoxy, 3-: see **Heptenal <4E>**, diethyl acetal 15.26
 heptenyl acetate, trans-2-: see **Heptenyl acetate <2E>** 11.99
 heptyl alcohol, sec-: see **Heptanol <2>** 4.84
 heptyl ethanoate: see **Heptyl acetate** 12.02
 heptyl isobutyrate: see **Heptyl isobutanoate** 17.84
 hepty- δ -valerolactone, δ -: see **Dodecalactone < δ >** 36.91
 heraclin: see **Bergaptene** 49.10
 herniarin, 8-(3-methyl-2-butenyl)-: see **Octalactone < γ >** 18.02
 hex-2-yl ethanoate: see **Acetoxyhexane <2>** 6.10
 hexadienal, trans-2, trans-4-: see **Hexadienal <2,4-(E,E)>** 5.14
 hexadienol, trans-trans-2,4-: see **Hexadienol <2E,4E>** 5.29
 hexadiynophenone <2,4>: see **Capillin** 34.35
 hexahydro-3-butylphthalide: see **Phthalide <3-butylhexahydro>** 34.15
 hexanolide-1,4: see **Hexalacetone < γ >** 9.33
 hexenal, cis-3-: see **Hexenal <3Z>** 3.15
 hexenal, trans-2-: see **Hexenal <2E>** 3.99
 hexenal, trans-3-: see **Hexenal <3E>** 3.10
 hexenoic acid, trans-3-: see **Hexenoic acid <3E>** 7.30
 hexenol acetate, trans-3-: see **Hexenyl acetate <3E>** 7.84
 hexenol, cis-3-: see **Hexenol <(3Z)>** 4.06
 hexenol, trans-2-: see **Hexenol <2E>** 4.13
 hexenol, trans-3-: see **Hexenol <(3E)>** 3.96
 hexenyl acetate, cis-3-: see **Hexenyl acetate <3Z>** 7.93
 hexenyl angelate, cis-: see **Hexenyl angelate <3Z>** 19.10
 hexenyl benzoate, cis-3-: see **Hexenyl benzoate <3Z>** 31.48

hexenyl benzoate, trans-2-; see **Hexenyl benzoate** <2E-> 32.37
 hexenyl butyrate, cis-; see **Hexenyl butanoate** <3Z-> 15.09
 hexenyl butyrate, trans-2-; see **Hexenyl butanoate** <(E)-2-> 15.48
 hexenyl caproate, cis-3-; see **Hexenyl hexanoate** <3Z-> 23.65
 hexenyl formate, cis-3-; see **Hexenyl formate** <3Z-> 5.32
 hexenyl formate, trans-2-; see **Hexenyl formate** <2E-> 5.46
 hexenyl isobutyrate <3Z->; see **Hexenyl isobutanoate** <3Z-> 13.30
 hexenyl isopentanoate, cis-3-; see **Hexenyl isovalerate** <2Z-> 17.60
 hexenyl isopentanoate <2Z->; see **Hexenyl isovalerate** <2Z-> 17.60
 hexenyl phenylacetate, cis-3-; see **Hexenyl phenyl acetate** <3Z-> 34.16
 hexenyl propionate, cis-3-; see **Hexenyl propionate** <3Z-> 11.30
 hexenyl salicylate, cis-3-; see **Hexenyl salicylate** <3Z-> 35.51
 hexenyl tiglate <cis-3->; see **Hexenyl tiglate** <3Z-> 21.07
 hexenyl tiglate <trans-3->; see **Hexenyl tiglate** <3E-> 20.88
 hexon, see **Methyl-2-pentanone** <4-> 2.50
 hexyl 3-methyl butanoate; see **Hexyl isovalerate** 17.59
 hexyl alcohol, see-; see **Hexanol** <2-> 3.14
 hexyl butyrate; see **Hexyl butanoate** 15.40
 hexyl caproate; see **Hexyl hexanoate** 23.83
 hexyl caprylate; see **Hexyl octanoate** 32.12
 hexyl isobutyrate; see **Hexyl isobutanoate** 13.50
 hexyl isopentanoate; see **Hexyl isovalerate** 17.59
 hexyl salicylate; see **Salicylic acid**, hexyl ester 35.75
 hexyl-4-butanolide, 4-; see **Decalactone** < γ -> 27.35
 hexylbutyrolactone γ -; see **Decalactone** < γ -> 27.35
 hexyl-cinnamaldehyde, trans, 2-; see **Cinnamaldehyde** <2-hexyl-(E)-> 38.51
 hexylvalerolactone, δ -; see **Undecalactone** < δ -> 32.62
 hinokienol, α -; see **Murol-5-en-4- α -ol** <cis-> 31.24
 hinokii acid; see **Thujopsenic acid** <cis-> 42.65
 humulene 1,2-epoxide; see **Humulene epoxide II** 33.20
 hyderiol; see **Heyderiol** 59.05
 hydrangine; see **Coumarin** <7-hydroxy-> 41.69
 hydrocinnamic alcohol; see **Hydrocinnamyl alcohol** 16.87
 hydrocyclopentane; see **Cyclopentanol** 3.04
 hydronootkatinol; see **Nootkatinol** 50.10
 hydroquinone dimethyl ether; see **Dimethoxybenzene** <1,4-> 14.12
 hydroxy-3-ethoxybenzaldehyde, 4-; see **Vanillin** <ethyl-> 26.83
 hydroxyanisole, o-; see **Guaiacol** <o-> 11.00
 hydroxybenzyl alcohol, 3-; see **Benzenemethanol**(3-hydroxy-> 21.92
 hydroxycamphene, 6-; see **Camphenol** <6-> 11.98

hydroxycaryophyllene, 13-; see **Caryophyllene** <14-hydroxy-(Z)-> 35.45
 hydroxydecane, 3-; see **Decanol** <3-> 15.60
 hydroxygermacra-1(10),5-diene <4 β ->; see **Germacrene D-4-ol** 31.85
 hydroxyindane, 5-; see **Indanol** <5-> 21.90
 hydroxyiresane, 8-7(8)-15-; see **Drimenol** 39.16
 hydroxy-p-cresol, α -; see **Benzenemethanol** <4-hydroxy-> 21.76
 hydroxy-p-cymene, 8-; see **Cymen-8-ol** <p-> 14.91
 hydroxysandaracopimar-15-ene, 8- β -; see **Nezukol** 51.47
 hydroxysesquicineole, (12Z-); see **Sesquicineole** <12-hydroxy-(Z)-> 39.16
 hydroxytoluene, α -; see **Benzyl alcohol** 8.77
 hydroxy- α -terpineol, trans-6-; see **Menth-6-en-2,8-diol** <trans-p-> 23.37
 hymecromone; see **Coumarin** <7-hydroxy-4-methyl-> 46.69
 hyprone; see **Acetophenone** 9.99

I

imecromone; see **Coumarin** <7-hydroxy-4-methyl-> 46.69
 ionol; see **Butylated hydroxytoluene** 29.43
 ionone, trans- α -; see **Ionone** <(E)- α -> 25.81
 ionone, trans- β -; see **Ionone** < β -(E)-> 28.30
 irone, α -; see **Ionone** <6-methyl- α -> 29.66
 irone, γ -; see **Ionone** <methyl- γ -> 28.00
 isoacetophorone; see **Isophorone** 12.27
 isoamyl propionate, see **Isoamyl propionate** 6.64
 isoamyl 2-methyl butanoate; see **Isopentyl 2-methyl butanoate** 11.49
 isoamyl acetate; see **Isopentyl acetate** 4.40
 isoamyl alcohol, see-; see **Methyl-2-butanol** <3-> 2.10
 isoamyl alcohol; see **Isopentyl alcohol** 2.53
 isoamyl caproate; see **Isoamyl hexanoate** 17.83
 isoamyl caprylate; see **Isoamyl octanoate** 26.42
 isoamyl formate; see **Isopentyl formate** 3.06
 isoamyl furylpropionate; see **Isoamyl 3-(2-furan) propionate** 25.88
 isoamyl isovalerate; see **Isopentyl isovalerate** 11.60
 isoamyl laurate; see **Isoamyl dodecanoate** 41.97
 isoamyl methanoate; see **Isopentyl formate** 3.06
 isoamyl n-butyrate; see **Isopentyl butanoate** 9.72
 isoamyl salicylate; see **Isopentyl salicylate** 30.25
 isoamyl trans-cinnamate; see **Isoamyl cinnamate** <(E)-> 38.21
 isoborneol acetate; see **Isobornyl acetate** 19.48
 isoborneol propionate; see **Isobornyl propanoate** 23.88
 isobornyl 2-methyl butyrate; see **Isobornyl 2-methyl butanoate** 29.76
 isobornyl butyrate; see **Isobornyl n-butanoate** 27.72
 isobornyl isobutyrate <5-hydroxy->; see **Isobornyl isobutanoate** <5-hydroxy-> 35.08
 isobornyl isobutyrate <5-oxy->; see **Isobornyl isobutanoate** <5-oxy-> 33.04

isobornyl isobutyrate <6-hydroxy->: see **Isobornyl isobutanoate <6-hydroxy->** 34.56
 isobornyl isobutyrate <8-hydroxy->: see **Isobornyl isobutanoate <8-hydroxy->** 35.75
 isobornyl isobutyrate <8-isobutyryloxy->: see **Isobornyl isobutanoate <8-isobutyryloxy->** 43.56
 isobutenylcarbinol: see **Buten-1-ol <3-methyl-3->** 2.45
 isobutyl alcohol: see **Isobutanol** 2.00
 isobutyl caproate: see **Isobutyl hexanoate** 13.62
 isobutyl crotonate: see **Isobutyl(2E)-butenoate** 7.62
 isobutyl ethanoate: see **Isobutyl acetate** 2.81
 isobutyl methanoate: see **Isobutyl formate** 2.14
 isobutyl o-hydroxybenzoate: see **Isobutyl salicylate** 25.59
 isobutyl propyl ketone: see **Heptanone <2-methyl-4->** 5.46
 isobutyl-3-methoxypyrazine, 2-: see **Pyrazine <2-methoxy-3-(2-methylpropyl)->** 14.91
 isobutylmethylcarbinol: see **Pentanol <4-methyl-2->** 2.66
 isobutylthiazole, 2-: see **Thiazole <2-isobutyl->** 8.89
 isobutyl α -toluate: see **Isobutyl phenylacetate** 24.01
 isobutyric acid, isobutyl ester: see **Isobutyl isobutyrate** 5.18
 isobutyric acid, isopropyl ester: see **Isopropyl isobutyrate** 3.08
 isobutyron: see **Dimethyl-3-pentanone <2,4->** 3.06
 isocaproic acid: see **Pentanoic acid <4-methyl->** 5.89
 isocarveol, trans-: see **Mentha-1(7),8-dien-2-ol <trans-p->** 15.24
 isocaryophyllene: see **Caryophyllene <(Z)->** 24.95
 isocedrenone: see **Cedren-9-one < β ->** 34.05
 isocedrol, 6-: see **Cedrol <epi->** 33.59
 isochinolin: see **Isoquinoline** 17.97
 isodextropimaraldehyde: see **Sandaracopimarinal** 53.06
 isodihydrolavandulyl aldehyde: see **Isopropyl-5-methyl-(2E)-hexenal <2->** 11.66
 isoelemicin, cis-: see **Isoelemicin <(Z)->** 31.62
 isoeanthic acid: see **Hexanoic acid <5-methyl->** 9.03
 isoeugenol acetate, trans-: see **Isoeugenol acetate <(E)->** 33.46
 isoeugenol, cis-: see **Isoeugenol <(Z)->** 24.90
 isoeugenol, trans-: see **Isoeugenol <(E)->** 26.67
 isofuranogermacrene: see **Curzerene** 28.79
 isogermacrene: see **Curzerene** 28.79
 isohexyl 2-methylbutyrate: see **Butanoic acid, 2-methyl-4-methylpentyl ester** 15.66
 isokaurene: see **Kaur-15-ene** 47.25
 isomethyleugenol, cis-: see **Methyl isoeugenol <(Z)->** 26.78
 isomethyl- α -ionone: see **Ionone <isomethyl- α -(E)->**
 isomyristicin, trans-: see **Isomyristicin** 33.52
 isoneral: see **Isocitral <Z->** 14.06
 isopatchoulone: see **Cyperotundone** 36.56
 isopentanal: see **Isovaleraldehyde** 2.04
 isopentenylcoumarin, 7-methoxy-8-: see **Octalactone < γ ->** 18.02
 isopentyl 2-methyl butyrate: see **Isopentyl 2-methyl butanoate** 11.49

isopentyl acetoacetate: see **Isoamyl acetoacetate** 14.72
 isopentyl alcohol, 3-: see **Buten-1-ol <3-methyl-3->** 2.45
 isopentyl benzoate: see **Isoamyl benzoate** 26.03
 isopentyl benzyl ether: see **Isoamyl benzyl ether** 20.64
 isopentyl butyrate: see **Isopentyl butanoate** 9.72
 isopentyl dodecanoate: see **Isoamyl dodecanoate** 41.97
 isopentyl ethanoate: see **Isopentyl acetate** 4.40
 isopentyl geranate: see **Isoamyl geranate** 34.85
 isopentyl hexenoate: see **Isoamyl hexanoate** 17.83
 isopentyl isobutyrate: see **Isoamyl isobutyrate** 8.05
 isopentyl laurate: see **Isoamyl dodecanoate** 41.97
 isopentyl methanoate: see **Isopentyl formate** 3.06
 isopentyl nerolate: see **Isoamyl nerolate** 33.00
 isopentyl nonanoate: see **Isoamyl nonanoate** 30.59
 isopentyl propanoate: see **Isoamyl propionate** 6.64
 isopenyl octanoate: see **Isoamyl octanoate** 26.42
 isopimara-7,15-dien-18-ol: see **Isopimarol** 56.77
 isopimaradien-18-ol, 8(14),15-: see **Sandaracopimarinal** 55.58
 isopimarinal: see **Isopimarol** 56.77
 isopimarinal: see **Sandaracopimarinal** 55.58
 isopinocampnone: see **Pinocampnone <cis->** 14.57
 isopropenyl-2-methylcyclohexanone, 5-: see **Dihydro carvone <cis->** 15.41
 isopropenylangelicin 5'-: see **Oroselone** 52.08
 isopropenyltoluene, 4-: see **Cymene <p->** 11.09
 isopropenyltoluene, m-: see **Cymene <meta->** 10.82
 isopropyl acetone, see **Methyl-2-pentanone <4->** 2.50
 isopropyl butyrate: see **Isopropyl butanoate** 3.81
 isopropyl ketone: see **Dimethyl-3-pentanone <2,4->** 3.06
 isopropyl myristate: see **Isopropyl tetradecanoate** 41.42
 isopropyl palmitate: see **Isopropyl hexadecanoate** 48.09
 isopropylbenzene: see **Cumene** 5.63
 isopropylresorcinol dimethyl ether, 5-: see **Benzene <1,3-dimethoxy-5-(1-methylethyl)->** 24.37
 isopropyltoluene, p-: see **Cymene <p->** 8.53
 isopropyltropolon, 4-: see **Nezukeone** 26.12
 isoterpinene: see **Terpinolene** 10.98
 isoterpinolene: see **Mentha-2,4(8)-diene <p->** 10.94
 isovaleral: see **Isovaleraldehyde** 2.04
 isovaleric acid geranyl ester: see **Geranyl isovalerate** 33.15
 isovaleric acid, 2-methylbutyl ester: see **Methyl butyl isovalerate <2->** 11.65
 isovaleric acid, 3-hexenyl ester, (Z)-: see **Hexenyl 3-methyl butanoate <3Z->** 17.22

J

jasmal: see **Amyl cinnamaldehyde <(E)->** 35.48
 jasmal: see **Amyl cinnamaldehyde <(Z)->** 34.73
 jasmatone: see **Dihydroisojasmone** 21.97
 jasminaldehyde: see **Amyl cinnamaldehyde <(Z)->** 34.73
 jasmone, trans-: see **Jasmone <(E)->** 24.19
 jatamansone: see **Valeranone** 35.74
 juniper camphor, acetate: see **Eudesm-7(11)-en-4-ol, acetate** 41.80
 juniper camphor: see **Eudesm-7(11)-en-4-ol** 36.74

juniperic acid lactone; see **Cyclohexadecanolide** 45.07

K

kaur-15-ene, <13-methyl-17-nor>; see **Isoshibaene** 45.05
 kautschin; see **Limonene** 8.69
 kessazulen; see **Guaiazulene** 39.66
 ketoisophorone; see **Isophorone** <4-keto> 13.23
 ketole; see **Indole** 19.76
 ketone, methyl 2-thiazolyl; see **Thiazole** <2-acetyl> 8.32
 ketone, methyl 2-thienyl; see **Acetylthiophene** <2> 10.97
 ketone, methyl pyrazinyl; see **Pyrazine** <2-acetyl> 8.41
 khusenilic acid; see **Vetivenic acid** 40.80
 Kodaflex triacetin; see **Triacetin** 22.31
 kryptomerin; see **Kaur-15-ene** 47.25
 kusunol; see **Valerianol** 35.07

L

labd-8(20)-en-15-oic acid, methyl ester, 5 β ,9 β H,10 α -; see **Methyl eperuate** 54.15
 labda-12,14-dien-8-ol; see **Abienol** 51.98
 labda-8(20),14-dien-13-ol, (13S)-; see **Manool** <13-epi> 49.20
 labda-8(20),14-dien-13-ol, (13R)-; see **Manool** 49.11
 labda-8(20),14-diene-13,19-diol; see **Torulosol** 58.21
 labdanolic acid, methyl ester; see **Methyl labdanolate** 58.80
 lactic acid, butyl ester, butyrate; see **Butyl butyryl lactate** 22.57
 lauraldehyde; see **Dodecanal** 24.95
 lauric acid, butyl ester; see **Butyl dodecanoate** 39.92
 lauric acid; see **Dodecanoic acid** 31.47
 lauric aldehyde; see **Dodecanal** 24.95
 lauryl acetate; see **Dodecyl acetate** 33.17
 lauryl alcohol; see **Dodecyl acetate** 33.17
 leaf acetal; see **Leaf alcohol, ethyl acetal** 11.77
 leaf alcohol; see **Hexenol** <(3Z)> 4.06
 lebaicone; see **Sabina ketone** <dehydro> 12.25
 lemonol; see **Geraniol** 17.95
 leucoline; see **Isoquinoline** 17.97
 ligustrazine; see **Pyrazine** <tetramethyl> 10.86
 lilyal; see **Lilial** 29.93
 lilyl aldehyde; see **Hydroxy citronellal** 19.60
 linalool acetate; see **Linalyl acetate** 18.16
 linalodol; see **Acetophenone** <4'-methoxy> 22.30
 lioxin; see **Vanillin** 24.32
 longipinanol, trans-; see **Longipinanol** 31.58

M

machilol; see **Eudesmol** < γ > 34.08
 majudin; see **Bergaptene** 49.10
 massiolactone; see **Massoia lactone** 27.60
 massoja Decalactone; see **Massoia lactone** 27.60
 MCH; see **Methyl-2-cyclohexene-1-one** 9.50
 medilla; see **Coumarin** <7-hydroxy-4-methyl> 46.69
 melilotol; see **Coumarin** <3,4-dihydro> 23.66

melilotin (coumarin); see **Coumarin** <3,4-dihydro> 23.66
 melonal; see **Bergamal** 9.67
 mendiaxon; see **Coumarin** <7-hydroxy-4-methyl> 46.69
 menth-1(7),2-diene, p-; see **Phellandrene** < β > 8.70
 menth-1(7)-en-8-ol, p-; see **Terpineol** < δ > 14.14
 menth-1-en-3-one, p-; see **Piperitone** 17.95
 menth-1-en-4-ol, p-; see **Terpinen-4-ol** 14.66
 menth-1-en-4-ol acetate, p-; see **Terpinen-4-ol acetate** 20.17
 menth-1-en-8-ol, acetate, p-; see **Terpinyl acetate** < α > 22.26
 menth-1-en-8-ol, p-; see **Terpineol** < α > 15.21
 menth-3-en-1-ol p-; see **Terpinen-1-ol** 12.77
 menth-3-en-2-one, p-; see **Carvenone** 18.21
 menth-3-en-8-ol, p-; see **Menth-3-en-8-ol** <p> 13.45
 menth-3-ene, 2-isopropenyl-1-vinyl, trans, p-; see **Elemenene** < δ > 21.77
 menth-4(8)-en-3-ol, p-; see **Pulegol** <trans> 16.35
 menth-6-en-2-one, 8-hydroxy-p-; see **Carvotanacetone** <8-acetoxy> 31.44
 menth-8-en-4-ol, p-, isomer; see **Terpineol** <trans- β > 14.02
 menth-8-en-2-ol, p-; see **Dihydro carveol** <iso> 16.34
 menth-8-en-2-one, p-; see **Dihydro carvone** <cis> 15.41
 menth-8-en-2-one, trans, p-; see **Dihydro carvone** <trans> 15.80
 mentha-1,3-diene, p-; see **Terpinene** < α > 8.30
 mentha-1,4(8)-diene, p-; see **Terpinolene** 10.98
 mentha-1,5-diene, p-; see **Phellandrene** < α > 7.85
 mentha-1,8-dien, p-; see **Limonene** 8.69
 mentha-2,4(8)-diene, p-; see **Mentha-2,4(8)-diene** <p> 10.94
 mentha-3,8-diene, 1-vinyl-(1S,2S)-o-; see **Geijerene** 13.15
 mentha-3,8-diene, 3,9-epoxy, p-; see **Menthofuran** 14.05
 mentha-3,8-diene, p-; see **Mentha-3,8-diene** <p> 10.30
 mentha-4,8-dien-3-one, 5,9-epoxy, p-; see **Evodone** 21.85
 mentha-6,8-dien-2-ol, acetate, cis, p-; see **Carvyl acetate** <cis> 23.08
 mentha-6,8-dien-2-ol, acetate, trans, p-; see **Carvyl acetate** <trans> 21.95
 mentha-6,8-dien-2-ol, cis, p-; see **Carveol** <cis> 16.94
 mentha-6,8-dien-2-ol, trans, p-; see **Carveol** <trans> 16.44
 mentha-6,8-dien-2-one, p-; see **Carvone** 17.53
 mentha-6,8-dien-2-one, p-; see **Carvone hydrate** 25.54
 mentha-6-en-2-one, (S), p-; see **Carvotanacetone** 17.72
 mentha-8-en-2-one p-, 1,6-epoxy-, (1S,4R,6S)-; see **Carvone oxide** <cis> 18.42
 menthadiene; see **Phellandrene** < α > 7.85
 menthan-2-ol, acetate, p-; see **Carvomenthyl acetate** <neo-iso> 22.30
 menthane, 1,4-epoxy, p-; see **Cineole** <1,4> 8.22
 menthol isovalerate; see **Menthyl isovalerate** 29.50
 methional; see **Propanal, 3-methylthio-** 4.97
 methionol; see **Propanol, 3-methylthio-** 6.90

- methoxy phenyl acetate, 2-; see **Guaiacol acetate** <o-> 18.51
- methoxy-6,7-furanocoumarin, 5-; see **Bergaptene** 49.10
- methoxyangelicin, 5-; see **Bergaptene** <iso-> 48.39
- methoxyanisole, p-; see **Dimethoxybenzene** <1,4-> 14.12
- methoxyanisole, m-; see **Benzene** <1,3-dimethoxy-> 14.27
- methoxybenzaldehyde, o-; see **Anisaldehyde** <o-> 17.50
- methoxycinnamic acid, p-; see **Methoxy cinnamic acid** <4E-> 36.77
- methoxycinnamic aldehyde, p-; see **Cinnamaldehyde** (E)- <p-methoxy-> 31.38
- methoxypsorlen, 5-; see **Bergaptene** 49.10
- methoxytoluene, p-; see **Anisole** <p-methyl-> 8.34
- methoxy- β -methylstyrene, cis-p-; see **Anethole** <(Z)-> 17.96
- methy catechol, o-; see **Guaiacol** <o-> 11.00
- methyl 2-aminobenzoate; see **Anthranilate** <ethyl-> 21.72
- methyl 8-hydroxyabdian-15-oate; see **Methyl labdanolate** 58.80
- methyl caproic acid, 2-; see **Hexanoic acid** <2-methyl-> 8.80
- methyl cinnamal, 2-methyl-3-phenylacrolein, α -; see **Cinnamaldehyde** < α -methyl-> 21.00
- methyl crotonaldehyde, γ ; see **Penten-1-al** <2E-> 2.65
- methyl crotyl alcohol, 3-; see **Buten-1-ol** <3-methyl-2-> 2.85
- methyl cyclohexanoate; see **Methyl cyclohexylcarboxylate** 9.84
- methyl cyclopentanone; see **Cyclopentanedione** <3-methyl-1,2-> 8.43
- methyl farnesoate, trans, trans-; see **Methyl farnesoate** <2E,6E-> 39.79
- methyl gallate trimethyl ether; see **Methyl eudesmate** 37.40
- methyl hex-5-enolide <4->; see **Lavender lactone** 9.04
- methyl hexyl ketone; see **Octanone** <2-> 7.45
- methyl isobutyl ketone, see **Methyl-2-pentanone** <4-> 2.50
- methyl octyl ketone; see **Decanone** <2-> 15.38
- methyl palmitate; see **Methyl hexadecanoate** 44.64
- methyl pentyl ketone; see **Heptanone** <2-> 4.74
- methyl phenyl ethyl ether; see **Benzene** <2-methoxyethyl-> 10.76
- methyl phenylacetate; see **Benzene acetic acid, methyl ester** 14.73
- methyl phenylacetone nitrile, 3-; see **Benzeneacetone nitrile** <3-methoxy-> 23.42
- methyl p-tolyl oxy acetate; see **Cresyl acetate** <methyl-> 24.76
- methyl trans-2-nonenolate; see **Methyl-(2E)-nonenolate** 16.73
- methyl undecyl ketone; see **Tridecanone** <2-> 28.64
- methyl α -toluate; see **Benzene acetic acid, methyl ester** 14.73
- methyl-2-butenyl angelate, 3-; see **Prenyl angelate** 15.30
- methyl-3-butenyl acetate, 3-; see **Buten-1-ol acetate** <3-methyl-3-> 4.59
- methyl-4 pentenoic acid, 2-; see **Pentenoic acid** <2-methyl-4-> 5.59
- methyl-5-acetylfuran, 2-; see **Furan, 2-acetyl-5-methyl-** 8.95
- methyl-5-pentyl-3-pentanone, 2-; see **Phenyl-4-methyl-pentan-3-one** <1-> 23.77
- methyl-6-oxo-2-heptene, 2-; see **Hepten-2-one** <6-methyl-5-> 7.25
- methylamyl angelate, 3-; see **Methyl pentyl angelate** <3-> 17.96
- methylamyl ketone; see **Heptanone** <2-> 4.74
- methylanisole, o-; see **Cresol methyl ether** <o-> 7.96
- methylanisole, p-; see **Anisole** <p-methyl-> 8.34
- methylbenzopyrone, 6-; see **Coumarin** <6-methyl-> 30.98
- methylbenzyl cyanide, 3-; see **Benzeneacetone nitrile** <3-methoxy-> 23.42
- methylbutyl ethyl ketone, 3-; see **Heptanone** <5-methyl-3-> 5.98
- methylbutyric acid, 2-; see **Butanoic acid** <2-methyl-> 3.75
- methylecamphenilanol, 3-; see **Camphene hydrate** 13.43
- methylecamphenilol, 3-; see **Camphene hydrate** 13.43
- methyldecanolide, 4-; see **Decalactone** < γ -methyl- γ -> 28.08
- methylene cyclohexene, 3-; see **Cyclohexene** <3-methylene-> 4.20
- methylisocugenol, trans-; see **Methyl isocugenol** <(E)-> 28.47
- methylolphenol, p ; see **Benzenemethanol** <4-hydroxy-> 21.76
- methylolphenol, 2-; see **Benzenemethanol** <2-hydroxy-> 18.22
- methylphenyl acetate, 2-; see **Cresol acetate** <o->
- methyl-p-xylene; see **Trimethyl benzene** <1,2,4-> 8.57
- methylstyrene, trans-p-methoxy- β -; see **Anethole** <(E)-> 19.43
- methyltoluene, o ; see **Cresol methyl ether** <o-> 7.96
- methyl-umbelliferone, 4-; see **Coumarin** <7-hydroxy-4-methyl-> 46.69
- metilamil alcohol; see **Pentanol** <4-methyl-2-> 2.66
- MIBK; see **Methyl-2-pentanone** <4-> 2.50
- MIC, 3-; see **Pentanol** <4-methyl-2-> 2.66
- miniatone; see **Torquatone** <demethyl-> 42.75
- modhephene; see **Modheph-2-ene** 23.83
- moth flakes; see **Naphthalene** 14.84
- musk T; see **Ethylene brassylate** 47.82
- muskalactone; see **Cyclopentadecanolide** 41.56
- muurolol, tau-; see **Muurolol** <epi- α -> 34.46
- muzigodial; see **Canellal** 48.75
- myristic alcohol; see **Tetradecanol** <n-> 35.64
- myristyl alcohol; see **Tetradecanol** <n-> 35.64
- myrtenic acid methyl ester; see **Methyl myrtenate** 19.92

N

naginata ketone; see **Elsholtzia ketone <dehydro->** 20.29
 naphthol methyl ether, 2-; see **Naphthalene<2-methoxy->** 26.53
 neantine; see **Diethyl phthalate (plastizer!)** 32.50
 neoabietinol; see **Abietol <neo->** 61.15
 neoclovene; see **Clovene <α-neo->** 26.80
 neocurzerene; see **Curzerene** 28.79
 neointermediol; see **Intermedeol <neo->** 35.15
 neomenthogycol; see **Menthol <8-hydroxy-neo->** 21.44
 nerol acetate; see **Neryl acetate** 22.81
 nerolin; see **Naphthalene <2-methoxy->** 26.53
 nesol; see **Limonene** 8.69
 nethyl butyrate; see **Methyl butanoate** 2.43
 noibe oil; see **Methyl benzoate** 11.07
 nojigikuol; see **Camphenol <6->** 11.98
 nonyl alcohol, see-; see **Nonanol <2->** 11.40
 nootkanol; see **Nootkatol <epi->** 36.72
 nopinene; see **Pinene <β->** 7.04
 nopinenone, 3-; see **Pinocarvone** 14.07
 norambreinolide; see **Sclareolide** 49.40
 norbornanol, 1,2,7,7-tetramethyl, 2-; see **Methyl isoborneol <2->** 14.85
 norbornanone, 1,3,3-trimethyl, 2-; see **Fenchone**
 norbornanone, 3,3-dimethyl, 2-; see **Camphenilone** 10.70
 norbourbonan-1-one, 11-; see **Bourbonanone- <1-nor->** 31.32
 nordavanone; see **Davanone <nor->** 17.02
 novoseabin; see **Benzyl benzoate** 38.90
 NSC 5585; see **Furfuryl acetate** 7.42
 nuciferal; see **Nuciferal <E->** 37.75
 nuciferol, cis-; see **Nuciferol <(Z)->** 37.63

O

obepin; see **Anis aldehyde <ρ->** 17.85
 ocimene epoxide, (E)-β-; see **Myroxide <(E)->** 13.23
 ocimene epoxide, (Z)-β-; see **Myroxide <(Z)->** 12.82
 ocimene, cis-; see **Ocimene <(Z)-β->** 8.96
 ocimene, trans-; see **Ocimene <(E)-β->** 9.42
 ocimenone, cis-; see **Ocimenone <(Z)->** 16.94
 ocimenone, trans-; see **Ocimenone <E->** 17.32
 octadien-3-ol <3,7-dimethyl, propionate-1,6->; see **Linalyl propanoate** 21.73
 octadienal, trans, trans-; see **Octadienal<2E,4E->** 11.59
 octanolide, 5-; see **Octalactone <δ->** 19.15
 octanolide-1,4-; see **Octalactone<γ->** 18.02
 octen-2-ol, trans-3-; see **Octen-2-ol <3E->** 7.28
 octen-2-ol, trans-3-; see **Octen-2-ol <3Z->** 7.00
 octenal, trans-2-; see **Octen-1-al <2E->** 9.59
 octenol, cis-3-; see **Octen-1-ol, <3Z->** 9.52
 octenol, trans-2-; see **Octen-1-ol <2E->** 10.03
 octyl acetate; see **Octanol acetate** 16.30
 octyl acrolein, β-; see **Dodecenal <(E)-2->** 27.33
 octyl-γ-butyrolactone, γ-; see **Dodecalactone <γ->** 35.85
 oenanthic ether; see **Ethyl heptanoate** 11.40
 oenanthal; see **Heptanal** 4.98
 origanene; see **Thujene <α->** 5.62

osthol; see **Octalactone <γ->** 18.02
 ostol; see **Octalactone <γ->** 18.02
 oxidocalamenene, 1,11-; see **calamenene<10,11-epoxy->** 28.47
 oxidobimachalene; see **Himachalene epoxide** 32.01
 oxadamantane, 2-; see **Adamantanone <2->** 20.64
 oxoferruginol, 6-; see **Ferruginol <6-keto->** 60.84
 oxopentadecane, 2-; see **Pentadecanone <2->** 36.64
 oxopholone; see **Isophorone <4-keto->** 13.23
 oxophorone; see **Isophorone <4-keto->** 13.23
 oxyphenalon; see **Raspberry ketone** 30.67

P

paioline; see **Apiole** 35.87
 palmityl acetate, see **Hexadecyl acetate** 47.45
 palustrol (Cedrus, Pinus); see **Abietadien-18-ol <8,13->** 57.17
 pandnaol; see **Benzene <2-methoxyethyl->** 10.76
 para-cide; see **Dichlorobenzene <1,4->** 8.18
 para-crystals; see **Dichlorobenzene <1,4->** 8.18
 para-zene; see **Dichlorobenzene <1,4->** 8.18
 parsley apiole; see **Apiole** 35.87
 parsley camphor; see **Apiole** 35.87
 pear oil; see **Amyl acetate** 5.25
 pear oil; see **Isopentyl acetate** 4.40
 pelargonaldehyde; see **Nonanal <n->** 11.51
 pelargonic alcohol; see **Nonanol <n->** 14.29
 pentadecalactone; see **Cyclopentadecanolide** 41.56
 pentane, 1-phenyl-; see **Pentyl benzene** 13.73
 pentanoic acid, 2E-hexenyl ester; see **Hexenyl valerate <2E->** 19.64
 pentanoic acid, 2Z-hexenyl ester; see **Hexenyl valerate <2Z->** 19.40
 pentanol, see-; see **Pentanol <2->** 2.18
 pentyl acetate; see **Amyl acetate** 5.25
 pentyl alcohol <2->; see **Pentanol <2->** 2.18
 pentyl butyrate; see **Pentyl butanoate** 11.08
 pentyl isobutyrate; see **Pentyl isobutanoate** 9.62
 pentyl methyl ketone; see **Heptanone <2->** 4.74
 pentyl vinyl ketone; see **Octen-3-one <1->** 6.98
 pentylalyl butyrate; see **Octen-3-ol butanoate<1->** 19.32
 pentylbenzene; see **Benzene <pentyl->** 13.73
 perhydrogeraniol; see **Dihydro citronellol** 15.55
 perhydronaphthalene, cis-; see **Naphthalene <cis-decahydro->** 11.46
 perhydronaphthalene, trans-; see **Naphthalene <trans-decahydro->** 9.77
 peroxy-p-ment-2-ene, 1,4-; see **Ascaridole** 17.28
 peruscabin; see **Benzyl benzoate** 38.90
 peruvicol; see **Nerolidol <(Z)->** 30.09
 peucenin 7-o-methyl ester; see **Peucenin, 7-methyl ether** 58.21
 phellandren-8-ol, α-; see **Mentha-1,5-dien-8-ol <ρ->** 14.32
 phenethyl alcohol, α-; see **Benzene methanol <α-methyl->** 9.92

- phenetrole, 5-isopropyl-2-methyl-; see **Carvacrol, ethyl ether** 20.10
- phenol, (2-(2-propenyl)-); see **Phenol <2-allyl->** 15.33
- phenol <2-methoxy-4-vinyl->; see **Guaiacol <p-vinyl->** 20.59
- phenol <m-isopropyl->; see **Cumenol <m->** 16.85
- phenol <o-isopropyl->; see **Cumenol <o->** 15.61
- phenoxymethane; see **Anisole** 5.32
- phenyl disulfide; see **Acetophenone** 9.99
- phenyl methyl ether; see **Anisole** 5.32
- phenyl methyl ketone; see **Acetophenone** 9.99
- phenyl propyl ketone; see **Butyrophenone** 17.95
- phenyl-1-propanol, 3-; see **Cinnamaldehyde <hydro->** 32.88
- phenyl-2,4-hexadiyne; see **Capillene** 28.53
- phenylacetonitrile; see **Benzeneacetonitrile** 12.94
- phenylacrolein; see **Cinnamaldehyde <(Z)->** 16.53
- phenylbenzene; see **Biphenyl** 23.51
- phenyldimethoxymethane; see **Benzaldehyde, dimethyl acetal** 11.90
- phenylethanone; see **Acetophenone** 9.99
- phenylethyl propionate, 1-; see **Methyl benzylpropanoate <α->** 19.31
- phenylheptatriyne; see **Hepta-1,3,5-triyne <1-phenyl->** 37.48
- phenylmethanol; see **Benzyl alcohol** 8.77
- phenylmethylecarbinol; see **Benzene methanol <α-methyl->** 9.92
- phenylpentane; see **Benzene <pentyl->** 13.73
- phenylpropane, 2-; see **Cumene** 5.63
- phenylpropanol, 3-; see **Hydrocinnamyl alcohol** 16.87
- phenylpropenal, trans-3-; see **Cinnamaldehyde <(E)->** 18.74
- phenylpropyl acetate, 3-; see **Hydrocinnamyl acetate** 23.11
- phenyltoluene, p-; see **Methyl biphenyl <4->** 28.35
- phixia; see **Hydroxy citronellal** 19.60
- phloroglucinol aldehyde; see **Trihydroxy benzaldehyde <2,4,6->** 41.06
- phthalol; see **Diethyl phthalate (plastizer!)** 32.50
- phytol(E)-; see **Phytol** 45.37
- phytol, trans-; see **Phytol** 45.37
- phytol <iso->; see **Isophytol** 45.52
- pimara-8(14),15-diene; see **Pimaradiene** 45.59
- pimara-8,14-diene; see **Pimaradiene** 45.59
- pinadiene, 2(10),3-; see **Verbenene** 6.67
- pinan-2-ol,cis; see **Pinene hydrate <cis->** 13.18
- pinan-2-ol <trans->; see **Pinene hydrate <trans->** 12.33
- pinanone, trans-3-; see **Pinocamphone <trans->** 14.00
- pinen-3-one, 2(10)-; see **Pinocaryone** 14.07
- pinen-4-one, 2-; see **Verbenone** 15.97
- pinen-7-one, 2-; see **Chrysanthenone** 12.53
- pinene, 2-; see **Pinene <α->** 5.85
- piperitone oxide(CAS), cis-; see **Piperitone epoxide <trans->** 18.10
- piperitone oxide(CAS), trans-; see **Piperitone epoxide <cis->** 18.00
- PMD 38; see **Menthol <8-hydroxy-neo->** 21.44
- podocarp-7,13-dien-15-oic acid, 13-isopropyl-,methyl ester; see **Methyl abietate** 58.91
- podocarp-8(14),12-dien-15-oic acid, 13-isopropyl-,methyl ester; see **Methyl levopimarate** 56.66
- podocarp-8(14)-en-15-oic acid, 13-isopropylidene-,methyl ester; see **Methyl neoabietate** 60.48
- podocarp-8(14)-en-15-oic acid, 13α-methyl-13-vinyl-,methyl ester; see **Methyl pimarate** 54.65
- podocarp-8(14)-en-15-ol, 13-isopropylidene-; see **Abietol <neo->** 61.15
- podocarp-8(14)-en-oic acid, 13β-methyl-13-vinyl-,methyl ester; see **Methyl sandaracopimarate** 55.19
- podocarp-8(14)-enoic acid, 13β-methyl-13-vinyl-,methyl ester; see **Methyl isopimarate** 56.42
- podocarp-8,11,13-trien-15-oic acid, 13-isopropyl-,methyl ester; see **Methyl dehydroabietate** 57.65
- podocarpa-1,8,11,13-tetraen-3-one, 12-hydroxy-13-isopropyl-; see **Hinokienone** 63.50
- podocarpa-6,8,11,13-tetraen-12-ol,13-isopropyl-; see **Ferruginol <6,7-dehydro->** 56.92
- podocarpa-7,13-dien-15-ol, 13-isopropyl-; see **Abietol** 59.37
- podocarpa-7,13-dien-3-one, 13-isopropyl-; see **Abieta-7,13-diene-3-one** 56.85
- podocarpa-8,11,13-trien-12-ol, 13-isopropyl-, acetate; see **Ferruginol acetate <trans->** 58.28
- podocarpa-8,11,13-trien-12-ol, 13-isopropyl-; see **Ferruginol <trans->** 57.39
- podocarpa-8,11,13-trien-15-al, 13-isopropyl-; see **Abietal, dehydro** 55.74
- podocarpa-8,11,13-trien-3-one, 12-hydroxy-13-isopropyl-; see **Hinokione** 63.30
- podocarpa-8,11,13-trien-3-one,13-hydroxy-14-ipp-; see **Totarolone** 63.10
- podocarpa-8,11,13-trien-3β,121-diol, 13-isopropyl-; see **Hinokiol** 64.33
- podocarpa-8,11,13-trien-7-one, 12-hydroxy-13-isopropyl-; see **Sugiol** 65.36
- podocarpa-8,11,13-triene; see **Abietatriene** 49.08
- podocarpa-8,13-diene(13-isopropyl-); see **Abietadien-18-ol <8,13->** 57.17
- pompene <α->; see **Barbatene <α->** 24.92
- precocene I; see **Ageratochromene <6-demethoxy->** 27.18
- precocene II; see **Ageratochromene** 35.16
- prenal; see **Methyl-2-butenal <3->** 2.97
- prenol; see **Buten-1-ol <3-methyl-2->** 2.85
- prenyl acetate; see **Buten-1-ol, 3-methyl-2-, acetate** 5.35
- prenyl alcohol; see **Buten-1-ol <3-methyl-2->** 2.85
- prenylumbelliferone, o-; see **Isoprenyl oxycoumarin <7->** 50.95
- presilphiperfolanol; see **Presilphiperfolan-8-ol** 32.30
- propanone <1-(4-methoxyphenyl)-2->; see **Anisyl methyl ketone** 23.75
- propenyl 3-methylbutanoate, 2-; see **Allyl isovalerate** 5.82

propenyl butyrate, 2-; see **Allyl butanoate** 4.60
 propenyl heptanoate, 2-; see **Allyl heptanoate** 14.86
 propenyl Veratrole, 4-cis-; see **Methyl isoeugenol** <(Z)-> 26.78
 propenylguaiacol, cis-4-; see **Isoeugenol** <(Z)-> 24.90
 propionic acid <2-mercapto->; see **Mercaptopropanoic acid** <2-> 6.35
 propionic acid <hexyl ester->; see **Hexyl propanoate** 11.53
 propyl butyrate; see **Propyl butanoate** 4.91
 propyl phenyl ketone; see **Butyrophenone** 17.95
 propyl sulfide; see **Disulfide, dipropyl** 11.60
 propylguaiacol, 4-; see **Eugenol** <dihydro-> 23.15
 propylvinylcarbinol; see **Hexen-3-ol** <1-> 2.88
 proximadiol; see **Cryptomeridiol** 40.86
 pseudocumene; see **Trimethyl benzene** <1,2,4-> 8.57
 pseudofimonene; see **Mentha-1(7),8-diene** <p-> 7.89
 pseudopinene; see **Pinene** < β -> 7.04
 psi-cumene; see **Trimethyl benzene** <1,2,4-> 8.57
 psoraderm; see **Bergaptene** 49.10
 purazulen; see **Guaiazulene** 39.66
 pyridyl methyl ketone, 2-; see **Acetylpyridine** <2-> 8.83
 pyroacetic acid; see **Pyruvic acid** 2.15
 pyrocatechol, 3-methyl-; see **Catechol** <3-methyl-> 18.20
 pyroguaiac acid; see **Guaiacol** <o-> 11.00
 pyromucic acid methyl ester; see **Methyl 2-furoate** 6.90
 pyrrolylethanone, 2-; see **Acetylpyrrole** <2-> 9.79

Q

quantrovanil; see **Vanillin** <ethyl-> 26.83
 quinal dimethyl ether; see **Dimethoxybenzene** <1,4-> 14.12

R

rattex; see **Coumarin** 25.97
 resorcinol dimethyl ether; see **Benzene** <1,3-dimethoxy-> 14.27
 resveratrol, trans-; see **Resveratrol** 67.83
 rheosmin; see **Raspberry ketone** 30.67
 rhodinal; see **Citronellal** 13.58
 rhyuno oil; see **Safrole** 19.56
 rodinol; see **Citronellol** 16.80
 rosadiene; see **Rosa-5,15-diene** <ent-> 45.06
 rosane; see **Rimene** <tetrahydro-> 45.99
 rose oxide levo; see **Rose oxide** <cis-> 11.77
 rotundene <11->; see **Rotundene** 27.05

S

salicyl alcohol; see **Benzenemethanol** <2-hydroxy-> 18.22
 salicylaldehyde methyl ether; see **Anisaldehyde** <o-> 17.50
 salicylic acid, isopentyl ester; see **Isopentyl salicylate** 30.25
 saligenin; see **Benzenemethanol** <2-hydroxy-> 18.22
 saligenol; see **Benzenemethanol** <2-hydroxy-> 18.22

sandaracopimaradien-18-al; see **Sandaracopimarinal** 53.06
 sandaracopimaradienol; see **Sandaracopimarinal** 55.58
 santalol a; see **Santalol** <(Z), α -> 35.74
 santalol b; see **Santalol** <(Z), β -> 37.31
 santalone, α -; see **Santalenone** 31.92
 sarisan; see **Asaricin** 28.62
 seccialdehyde; see **Methyl-2-butenal** <3-> 2.97
 sekishon; see **Methyl-2-butenal** <3-> 2.97
 selin-7(11)-en-4-ol; see **Eudesm-7(11)-en-4-ol** 36.74
 selina-3,11-diene; see **Selinene** < α -> 28.74
 selina-4(14),11-diene; see **Selinene** < β -> 28.37
 selina-4,7-diol; see **Cryptomeridiol** 40.86
 selinene, β -; see **Eudesmol** < β ->
 selinenol, α -; see **Eudesmol** < α -> 34.91
 selinenol; see **Eudesm-7(11)-en-4-ol** 36.74
 seneciolic acid; see **Butenoic acid, 3-methyl-2-** 4.60
 senkunolide A; see **Sedanenolide** 37.45
 sesquichamene; see **Thujopsene** <cis-> 25.86
 sesquilavandulol acetate <cis->; see **Sesquilavandulyl acetate** <(Z)-> 37.92
 sesquilavandulol acetate <trans->; see **Sesquilavandulyl acetate** <(E)-> 38.19
 seudenone; see **Methyl-2-cyclohexene-1-one** 9.50
 shikimol; see **Safrole** 19.56
 shonanol,3-oxototarol; see **Totarolone** 63.10
 silphiperfol-5-ene B; see **Silphiperfol-5-ene** 21.37
 silphiperfolene; see **Silphiperfol-6-ene** 23.61
 sitostenone; see **Stigmast-4-en-3-one** 79.26
 skellysolve C; see **Heptane** 2.23
 skimmetine; see **Coumarin** <7-hydroxy-> 41.69
 soberol, trans-; see **Menth-6-en-2,8-diol** <trans-p-> 23.37
 solvanol; see **Diethyl phthalate** (plastizer!) 32.50
 sorbaldehyde; see **Hexadienal** <2,4-(E,E)-> 5.14
 sorbic acid, ethyl ester; see **Ethyl sorbate** 11.20
 sorbic alcohol; see **Hexadienol** <2E,4E-> 5.29
 sorbinol; see **Hexadienol** <2E,4E-> 5.29
 sorbyl acetate; see **Hexadienol acetate** <2E,4E-> 10.11
 sorbyl propanoate; see **Hexadienol propanoate** <2E,4E-> 14.05
 spirovetivene; see **Premnaspirodien** 29.05
 stearol; see **Octadecanol** 49.76
 stearyl alcohol; see **Octadecanol** 49.76
 styrallyl propionate; see **Methyl benzylpropanoate** < α -> 19.31
 styrallyl alcohol; see **Benzene methanol** < α -methyl-> 9.92
 succinic acid, diethyl ester; see **Diethyl succinate** 14.76
 sunarome O; see **Salicylate, 2-ethylhexyl-** 40.65
 syringol acetate; see **Phenol acetate** <2,6-dimethoxy-> 26.32
 syringol; see **Phenol** <2,6-dimethoxy-> 22.24

T

tadeonal; see **Polygodial** 47.85
 tagetone, cis-; see **Tagetone** <Z-> 13.54

tagetone, trans-; see **Tagetone** <(E)-> 13.19
 tar camphor; see **Naphthalene** 14.84
 terebenthene; see **Pinene** < β -> 7.04
 terpinene; see **Terpinene** < α -> 8.30
 terpinen-1-ol-3-; see **Terpinen-1-ol** 12.77
 terpineol, 4-; see **Terpinen-4-ol** 14.66
 terrestrol; see **Farnesol** <2,3-dihydro-> 36.31
 tert-butyl-4-methoxyphenol; see **Butylated hydroxyanisole** 28.34
 tetrahydro geraniol; see **Dihydro citronellol** 15.55
 tetrahydro geranyl acetate; see **Dihydro citronellol acetate** 21.04
 tetrahydrocarvone; see **Menthan-2-one** <trans-p-> 15.75
 thiapentanal <4->; see **Propanal, 3-methylthio-** 4.97
 thiazole <2-isopropyl 4-methyl->; see **Isopropyl-4-methyl thiazole** <2-> 8.24
 thibetolide; see **Cyclopentadecanolide** 41.56
 thioguaiacol; see **Methoxythiophenol** <2-> 16.23
 thiolactic acid; see **Mercaptopropanoic acid** <2-> 6.35
 thujanol cis-4-; see **Sabinene hydrate** <trans-> 11.41
 thujanol, trans-, 4-; see **Sabinene hydrate** <cis-> (IPP vs. OII) 10.20
 thujenal; see **Thuj-3-en-10-al** 14.99
 thujene, 4(10)-; see **Sabinene** 6.91
 thujic acid, methyl ester; see **Methyl thujate** 21.02
 thujone, α -; see **Thujone** <cis-> 11.56
 thujone, β -; see **Thujone** <trans-> 12.00
 thunbergene; see **Cembrene** 45.21
 tigaldehyde; see **Tiglic aldehyde** 2.58
 tiglic acid citronyllyl ester; see **Citronellyl tiglate** <(E)-> 35.46
 tiglic acid, allyl ester; see **Allyl tiglate** 8.57
 tiglic acid, benzyl ester; see **Benzyl tiglate** 28.71
 tiglic acid, ethyl ester; see **Ethyl tiglate** 5.78
 tiglic acid, geranyl ester; see **Geranyl tiglate** 36.59
 tiglic acid, isopropyl ester; see **Isopropyl tiglate** 6.93
 tolunitrile, α -; see **Benzeneacetoneitrile** 12.94
 tolyl acetate, o-; see **Cresol acetate** <o-> 12.98
 tolyl acetate, 3-; see **Cresol acetate** <meta-> 14.00
 tolyl isobutyrate, p-; see **Cresyl isobutyrate** <p-> 20.42
 tolyl phenylacetate, m-; see **Benzeneacetic acid, 3-methylphenyl ester** 41.37
 tolyl-2-propanol, 2-(3-; see **Cymen-8-ol** <meta-> 14.78
 tolylpropan-1-ol, 2-p-; see **Cymen-9-ol** <p-> 15.98
 tolylpropene, 2-m-; see **Cymenene** <meta-> 10.82
 toncarine; see **Coumarin** <6-methyl-> 30.98
 tonghaosu (E-); see **Spiroether** <E-> 43.59
 tonghaosu (Z-); see **Spiroether** <Z-> 43.19
 tonka bean camphor; see **Coumarin** 25.97
 tonkalide; see **Hexalacetone** < γ -> 9.33
 torreyol; see **Murolol** < α -> 34.61
 trepan; see **Cineole** <1,8-> 8.76
 trimethyl benzene <1,3,5->; see **Mesitylene** 7.61
 trimethylgallic acid methyl ester; see **Methyl endesmate** 37.40
 trimethylnorcamphor, 1,3,3-; see **Fenchone** 10.88

U

umbelliferone, 4,8-dimethyl-; see **Coumarin** <7-hydroxy-4,8-dimethyl-> 47.75
 umbelliferone; see **Coumarin** <7-hydroxy-> 41.69
 UN 1914; see **Butyl propanoate** 5.13
 uncineol; see **Eudesm-7(11)-en-4-ol** 36.74
 undecyl alcohol, sec-; see **Undecanol** <2-> 20.26

V

valeric acid, 2-methyl, methyl ester; see **Methyl pentanoate** <2-methyl-> 4.42
 valeric acid, 2-methyl; see **Pentanoic acid** <2-methyl-> 5.71
 valeric acid, 4-methyl-; see **Pentanoic acid** <4-methyl-> 5.89
 valeric acid, butyl ester; see **Butyl pentanoate** 11.19
 valeric acid, cis-3 hexenyl ester; see **Hexenyl valerate** <3Z-> 19.28
 vanay; see **Triacetin** 22.31
 veratrole, 4-(trans-propenyl); see **Methyl isoeugenol** <(E)-> 28.47
 vert de vilette, artifical; see **Methyl heptene carbonate** 15.60
 vetivazulen; see **Guaiazulene** 39.66
 vinylguaiacol, p-; see **Guaiacol** <p-vinyl-> 20.59
 vinyl- γ -valerolactone, γ -; see **Lavender lactone** 9.04

W

widdrenal; see **Thujopsenal** 37.06
 widdrene; see **Thujopsene** <cis-> 25.86
 widdrenic acid; see **Thujopsenic acid** <cis-> 42.65
 xanthoxylin; see **Phloroacetophenone** <2,4-dimethylether-> 35.47

X

xlenol, 2,6-; see **Dimethyl phenol** <2,6-> 11.74
 xylidine, 2,6-; see **Dimethyl aniline** <2,6->
 xylidine, o-; see **Dimethyl aniline** <2,6->

Y

yara yara; see **Naphthalene** <2-methoxy-> 26.53

Z

zedoary oil; see **Cineole** <1,8->
 zingiberene; see **Zingiberene** < α -> 28.53
 ziza-6(13)-en-3-one, 2-epi-; see **Zizanone** <epi-> 35.54
 zizanoic acid; see **Vetivenic acid** 40.80
 zizanol; see **Khusimol** 38.26

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